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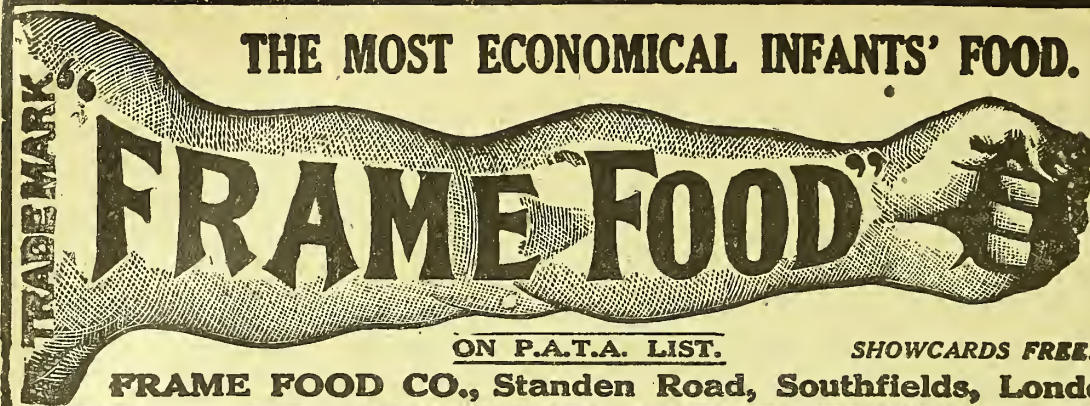
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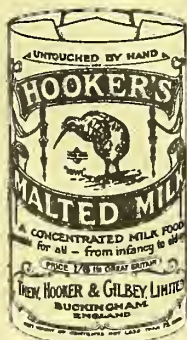
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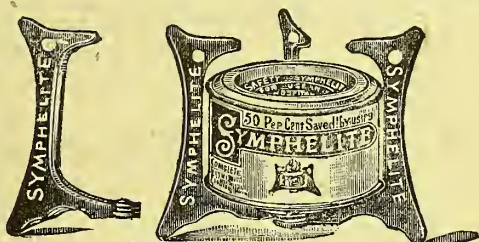
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† Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.

† Order through your Wholesale Druggist, or direct from the manufacturers,

**JAS. PASCALL, Ltd., LONDON, S.E.**



## FREEMAN'S

# REAL TURTLE

# Soup Cubes

"Ready to Serve."

Made from the real rich meat of selected West Indian Turtles—so that real Turtle Soup, once the privilege only of the rich, is now a delicacy easily accessible to every household. No other soup is so nourishing and delicious.

Made in a minute with boiling water.

To retail in 1/- Cartons containing 4 Cubes.

THE WATFORD  
MFG. CO., LTD.,

Makers of

Freemans Table  
Dainties, Boisseliers  
(Boy-sel-e-a) Chocolates,  
and Vi-Cocoa,  
Victoria Works, Watford

*Freemans*  
READY SOUPS  
*Watford*



# BISHOP'S PIPERAZINE CITRATE

**A REMEDY OF ESTABLISHED AND DEFINITE VALUE**

**IN GOUT, LUMBAGO, SCIATICA, NEURITIS, GRAVEL, STONE,  
AND ALL MANIFESTATIONS OF THE URIC ACID DIATHESIS.**

Prescribed by the British Medical Profession for nearly 20 years.

The undoubted superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

Piperazine base, on the contrary, is so volatile and hygroscopic that it cannot be manufactured or dispensed with any degree of accuracy. Hence the unreliability of all Piperazine preparations that are not made with Bishop's Piperazine Citrate.

**PIPERAZINE CITRATE  
IS MADE ONLY BY  
ALFRED BISHOP, LTD.**

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

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Bishop's Piperazine Citrate is supplied in crystalline powder for dispensing, and also in the

Granular Effervescent form and Varalettes. The value and reliability of these preparations have been established by abundant clinical experience.

**WE CAN, HOWEVER, SUPPLY PIPERAZINE BASE IN LARGE OR SMALL  
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**MANUFACTURING  
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**CELLONITE COMPANY, DREYFUS & COMPANY, BASLE.**

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ACETIC ANHYDRIDE. TRIACETINE, CAMPHOR  
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**British Cellulose & Chemical Manufacturing Company, Limited,  
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Formerly of the W. H. BOWDLEAR CO.

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**BEESWAX**

Quotations given in £ sterling, per cwt.

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**SODA SULPHATE (PEA XTALS.)**

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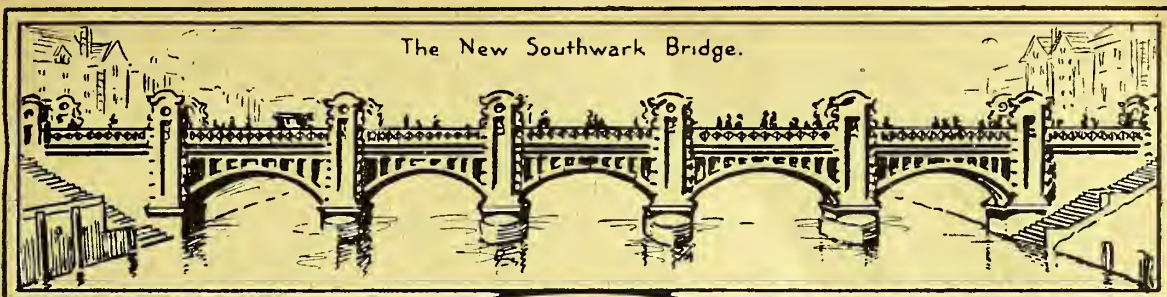
**SODA BENZOATE.**

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*R. W. GREEFF & CO. offer at lowest prices the following products  
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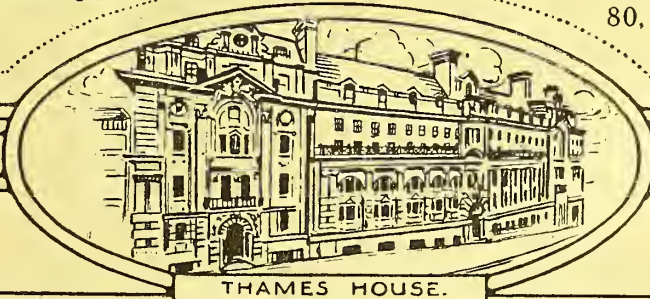
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*The only actual Manufacturing Wax Chandler in the  
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### ... The ... Registration of Business Names Act, 1916.

*Sub. Section (1) of Section 18, enacts as follows :*

**18.** (1) After the expiration of three months from the passing of this Act every Individual and Firm required by this Act to be registered shall, in all trade catalogues, trade circulars, showcards, and business letters, on or in which the business name appears and which are issued or sent by the individual or firm to any person in any part of His Majesty's dominions, have mentioned in legible characters—

- (a) In the case of an Individual, his present Christian name or the initials thereof and present surname, any former Christian name or surname, his nationality if not British, and if his nationality is not his nationality of origin his nationality of origin; and
- (b) In the case of a Firm, the present Christian names or the initials thereof and present surnames, any former Christian names and surnames, and the nationality if not British, and if the nationality is not the nationality of origin the nationality of origin of all the partners in the firm or, in the case of a Corporation being a partner, the corporate name.

Place your orders for Printing and Rubber Stamps

WITH

**FORD, SHAPLAND & CO.,**

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## Dinkie

*The Dainty Deodorant*

A new and attractive line that is sure to enjoy good sales. A greaseless Cream that takes the odour out of perspiration. Daintily packed in opal jars. Ask your wholesaler.

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*The liquid hair remover*  
(originally known as Decalene)

A new idea in depilatories. Simple and safe to use—effective in use. Pleasant and harmless. Invaluable during the vogue of the décolleté gown. Daintily packed. Ask your wholesaler.

### TRADE TERMS

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Advertised, and min. 2/6  
Retail Price Trade 20/- doz.

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Advertised, and min. 3/9  
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Monthly Accounts nett. 5% Cash  
with Order.  
Carriage Paid on fr. lots. Particulars  
on request.

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*Satisfaction  
Guaranteed  
or Money back*



*Trade Mark*



## MAW'S ROCKET, INHALER

A highly appreciated line. Most useful for the inhalation of formalin, pine, and other medicaments. Simply remove india-rubber nose-piece and sprinkle the required preparation on the cotton wool provided inside the glass container. Each in strong carton.



This is an actual size illustration of Maw's Pocket Inhaler. Note the convenient size and specially moulded india-rubber nose-piece.

**3/6**  
DOZ.

INCLUDING  
ONE  
INHALER  
ON  
DISPLAY  
CARD.

**Maw's**

S MAW, SON & SONS  
(G.P.O. BOX N° 54)  
7-12 ALDERSGATE ST.  
LONDON, E.C.

**Page**

NUMBER 278

FEB. 10, 1917

HOURS OF BUSINESS : 8.30 a.m. — 5.30 p.m.

CLOSE AT 1 p.m. SATURDAY

The "Quala" Rubber Milk Sponge is unequalled for cleansing the pores. It increases in size and softness on contact with water. In attractive boxes in 2 sizes. 22/- and 48/- dozen.

We are now supplying Inhalants for use with Maw's Pocket Inhaler (see adjoining column). Eucalyptus, Menthol or Pinol. Each in bottle in carton, 4/- dozen.

A Showcard is now sent with all orders for our Air Cushions. Complete with cases, 12/- doz. A favourite Active Serviceline.

Have you written for prices of our noted 'Vel-fin' (Regd.) Crêpe Bandages? Eight widths, 2 in. to 11 in.



## Invasion.

In uniforms of black, red and gold a million soldiers are crossing the border from the Land o' Burns. In Scotland this army has once again been produced by our printers—a regiment that will invade your pharmacy in the cause of commerce and goodwill.

It is about four years ago since our Seal first went forth on every practicable box and packet distributed by us. It is familiar to the majority of our customers—a neat, adhesive label bearing our name and the words, "From the House of Maw." Thousands of our goods have carried this simple message to the public, an assurance and guarantee of the reliability of the purchase to which it was affixed.

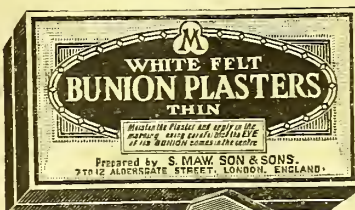
This Seal has become an integral part of our productive service, the distinguishing mark of the super-excellence which a generation has learnt to expect from lines bearing the name of Maw. The Seal assists the pharmacist in selecting stock from his shelves; to the customer it spells confidence in the retailer's recommendation. A small thing in itself, the House of Maw Seal has nevertheless been instrumental in keeping the high standard of our products before the notice of a discriminative public. Another million of these famous labels are ready to endorse Maw quality. To all parts of the world with which we trade, these symbols will be sent as silent witnesses to the excellence of Maw goods and the efficiency of Maw service.

The public appreciate goods of sterling worth. It seeks evidence of expert workmanship and manufacture. It likes British-made goods. It prefers Maw-made goods. It looks for goods bearing the happy and convincing warranty: "From the House of Maw."

*Capsule*

## CORN & BUNION PLASTERS

The new boxes recently designed for our Corn and Bunion Plasters have been generally appreciated by our customers, although we are still retaining the original green boxes for those who prefer them. Whichever box you order, you are sure of obtaining the best Maw-made Plasters; and we make the special offer to print customers' names and addresses on orders for one gross of either kind, but *not* assorted.

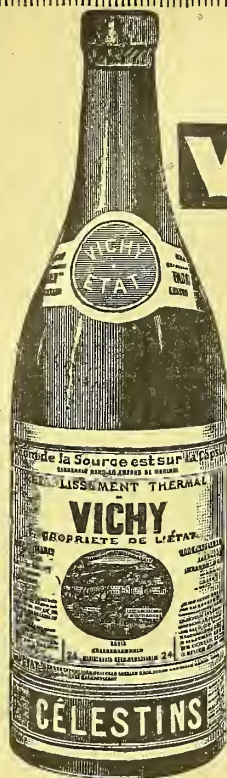


Note.—The NEW boxes are sent unless the green patterns are specially ordered.

### PRICES.

	DOZ.
Thin Bunion Plasters	2/2
Thick " "	2/9
Thin Corn Plasters	1/10
Thick " "	2/6





# THE FRENCH NATURAL MINERAL — WATER. — **VICHY-CÉLESTINS**

**DISORDERS** of the **LIVER, GOUT,**  
**Diabetes, Rheumatism, Gravel, &c.**

## VICHY-ÉTAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

**CAUTION.**—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ÉTAT" and the name of the **SOLE AGENTS:**  
**IN RAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.**

**PROPERTY OF THE FRENCH GOVERNMENT.**

## KEENE'S Penny Cubes.

Cocoa, Tea and Malted Cocoa (with Pure Milk and Sugar).  
Malt and Milk (Finest Peptonised Malt).

*Attractively made up in 6d. Boxes.*

SAMPLE BOX OF 6 CUBES 3d., WITH SPECIAL DISCOUNTS.

**KEENE'S, Cube Specialists, LEICESTER.**

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**Sells readily ALL the time.**

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

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It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.





There is no better  
Flask made than the

## "ALL BRITISH" VACUUM FLASK,

of which not only the protective  
outer casing but the essential  
glass vacuum bottle are

**MADE IN ENGLAND.**

SOLE MAKERS—

**AERATORS LIMITED**

*"Prana" Sparklet Works,*

UPPER EDMONTON, LONDON, N.

## PURE DRINKING WATER.



### The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT  
STATEMENT:

Wherever the **PASTEUR  
FILTER** has been applied,  
**TYPHOID FEVER** has  
disappeared.

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# 4 GOOD THINGS

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The genuine  
Thermos Bottles  
give genuine  
satisfaction. They  
cost little more  
than the imita-  
tion, they sell  
more easily, and  
give a better  
profit. Sell  
**THERMOS**  
exclusively.

### JUGS

are handy vessels  
for domestic use.  
You should sell  
more than one to  
each household in  
your district.

### FOOD JARS

will keep solid  
food hot, drinks  
cool, and ices  
frozen. They are  
already in exten-  
sive use, but  
should be better  
known. Your  
customers will  
appreciate being  
introduced to  
them.

### CARAFES

Thermos Carafes  
are in use in Hos-  
pitals, Hotels, Clubs,  
Canteens, Messes,  
and Homes all over  
the world. They  
sell well and pro-  
fitably.

# THERMOS

SEND  
for  
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Telegrams: "Cythermoso, Finsquare, London."



# FINEST NORWEGIAN *Medicinal Non-freezing* COD LIVER OIL

*The Cheapest & Best on the Market.  
Special Facilities. Let us have your Enquiries.*

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FINE LEAF GELATINE  
PURE CALF

**"ALBION" BRAND**

(In 1lb. Packets.  
112 x 1 lb. Packets to Case.)

FINE CRYSTAL GELATINES.  
PURE SKIN GELATINES.  
POWDERED GELATINES.

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AJOWAN OIL, BELLADONNA  
LEAF and ROOT, CARBONATE  
OF POTASH 96/97%, COSTUS  
ROOT, CHAULMOOGRA OIL,  
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EUPHORBIA PILULIFERA,  
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EMODI ROOT, PYROLUSITE,  
SANDALWOOD OIL, SODIUM  
GYNOCARDATE, THYMOL,  
TURMERIC and other INDIAN  
DRUGS.

**SMITH, STANISTREET**  
**CALCUTTA. and Co.**



**See that your Stock is Right.**

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**5½d**

Try a

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**Bournville Cocoa  
& Cadbury's Cocoa**

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**Sanaphos.**

(T.M. Regd.)

The ideal reconstructive nerve food.

“The officer at Wimbledon is very much better and is going on with SANAPHOS. The Sciatica case is quite cured. One patient says that SANAPHOS is worth twice as much as Sana-togen. The other case, Neuritis, is also cured.”

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The fixed prices at which Sanaphos is sold show a net profit to the retail chemist of over 30 per cent. on selling price (over 40 per cent. on cost.) The wholesale prices are:—1½ size, 8/6 per dozen; 1/6 size, 12/9 per dozen; 2/6 size, 21/- per dozen; 5/- size, 42/- per dozen. Sanaphos is a reconstructive NERVE Food: Nutrient, Restorative and Activating. It is indicated in Mental and Physical Fatigue; Nervous Breakdown; Insomnia; and Neurasthenia. Sanaphos is an organically phosphated milk product, much superior to the former German-owned article, and is prepared in England under strict scientific control. Chemists are invited to write for samples, showcards, and all particulars; and to send names of physicians, to whom we shall be pleased to send samples of Sanaphos and copies of numerous professional endorsements. Address: THE BRITISH MILK PRODUCTS CO., LTD., 69 MARK LANE, LONDON, E.C. — — Exceptional Terms for Supplies to Hospitals.





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Five Students only entered, and all passed in Practical and Theory.

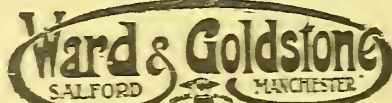
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Most reliable. Fitted with bulb-eye lens heavily nickel-plated caps. Recommended for Export. Complete with Reels and Bulbs. Price 30/- each net.



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British Manufacture. Made of the finest chemicals and finished by a special process to ensure maximum life. Highest grade. Price 6/6 per dozen net.

For Cheaper Types SEE OUR LIST.



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British made. Size of Case, 5 1/2 x 6 1/2 in. No. N 901.

Price 23/- net. Fitted with high-speed vibrator. Make and Break which ensures a steady soothing current; can be regulated from mild to powerful. A reliable Leclanche Dry Cell is contained in Case which can be renewed in a few moments.



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Complete with Reills and Best Bulbs.	DESCRIPTION.		10 Lenses.		15 Lenses.	
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Superior quality, in best leatherette covering heavily nickel-plated	324	23 8	304	25 -		
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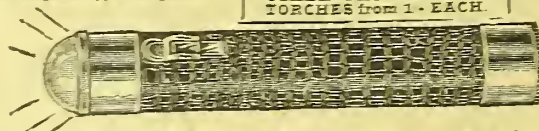


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Write also for leaflet describing our Interchangeable Sign. Just the thing to give the personal touch to your window. Complete with 256 letters for 30/-

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Made in Two Rapidities, 1 Minute and  $\frac{1}{2}$  Minute.

New Price List of Thermometers for every purpose, post free.

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"SILWYR LONDON"

No. 133. Nickelled Hair Brush.

BRITISH MANUFACTURE.

1/3 each. 10/- per doz.

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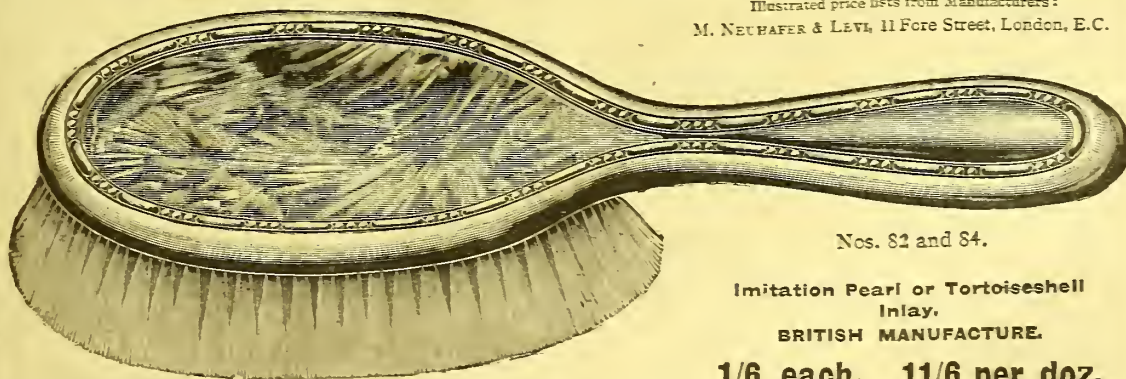
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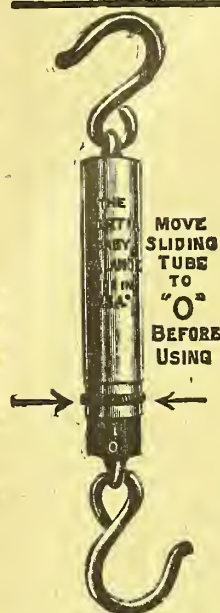
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They **FIX THEMSELVES** without the use of elastic, string or adhesives; **AIR-TIGHT, too!**

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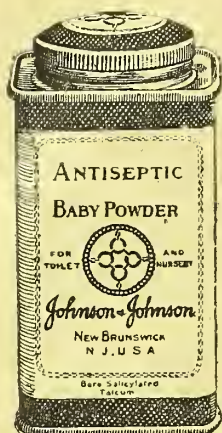
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We wish to warn our Customers, so that they may be on their guard, that our package is being imitated. This step, which is so easy, is an undignified and shabby attempt to rob us of our goodwill.

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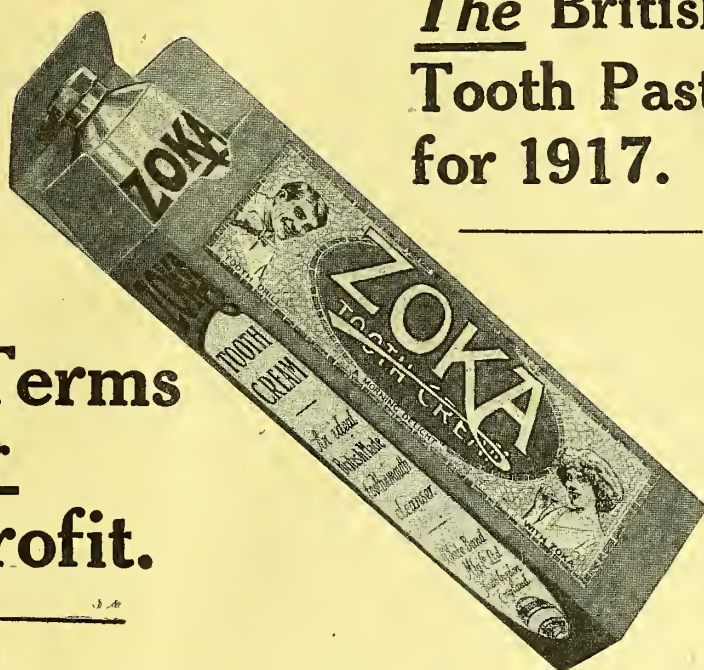
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In three qualities : Triple, Triple Extra, and Quadruple Strengths. 50 different Odours.

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IN BULK, CUT GLASS, OR MOULDED BOTTLES.

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**MORRHUOL DE CHAPOTEAUT**  
is extracted from cod-liver oil, and  
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**A harmless antiseptic  
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**SOLD BY ALL CHEMISTS**



*I find the odor exquisite and  
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by my name. Very sincerely  
Mary Garden*

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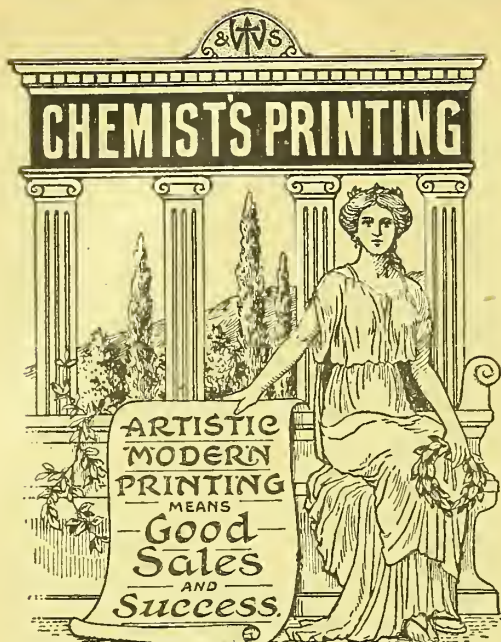
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Quality 1. 3/-, 3/6 and 5/6 doz. In Bulk, 1 1/2 lb. Best Quality.

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In Collapsible Tubes, each in a carton, 4/- doz.

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Small, 3/- doz. 3 doz. 2/9 6 doz. 2/6 1 gross 27/-

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This is a splendid selling line, having received the Certificate of Merit from the Institute of Hygiene.

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A very fast selling 1d. line for Winter, 8/- gross.

SPECIAL QUOTATIONS FOR QUANTITIES.

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"Columbia" Natural  
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Re-distilled.

Finest qualities for Druggists,  
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## TOZANA HAIR FOOD

Now being  
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"Nourishes the Roots." A new and wonderful discovery for the rejuvenation and preservation of the hair, which, in the gentlemen's strength, is also an

**EXCELLENT FIXATIVE DRESSING.**

Prepared in two strengths—"Ladies'" & "Gentlemen's."  
Retail at 2/-, 3/6 and 5/- per bottle; Trial size, 1/-.

For trade prices inquire of your wholesaler, or direct to the

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The Finest Quality  
Aerated Waters are  
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the Finest Quality  
**ESSENCES**

**Boake  
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Soluble Essences are  
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and being extremely  
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Lemon	Ginger Ale
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# HOVENDEN'S THEATRICAL GREASE PAINTS.



These paints are manufactured at our Factory in Britannia Row, N. Guaranteed pure, colours perfect, and quality better than any foreign make.

*VIDE Testimonials.*

## MADE IN THE FOLLOWING SHADES:—

No. 1	No.
1 Very pale flesh.	15 Brick red.
1½ Moderately pale.	16 Dark brown.
2 Fair complexion.	
2½ Medium flesh.	17 Carmine,
3 Pale complexion.	vermilion.
3½ Slightly sunburnt.	18 „ light.
4 Dark flesh.	19 „ medium.
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5½ Dark sawlow.	
6 Yellowish flesh.	20 White.
6½ Japanese.	23 Light grey.
7 Brown.	24 Dark grey.
8 Armenian Bole.	25 Old red.
9 Sunburnt or	26 Light blue.
Indian.	31 Middle blue.
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12 Black.	30 Rose.
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**3/9 doz. Sticks.**

*Special quotation for quantities.*

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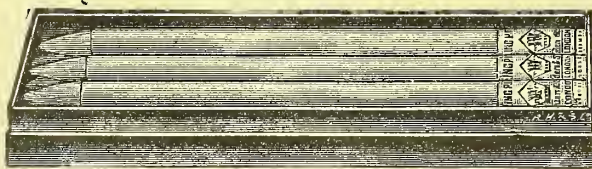
"I have been intending for some time to send you a testimonial about your Grease Paints. I have given them a good trial now, and I think I can honestly say that they are superior even to the German, and that, alas! is saying a good deal. I compliment you heartily upon your achievement."

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**English Manufacture.**

Black, Old Red, Brown, Light Brown, Dark Brown, Light Blue, Medium Blue, Dark Blue, White, Flesh, Light Grey, Dark Grey, Carmine.

**2/6 per doz. Sticks.**

Subject to 2½% Cash Discount.

A copy of our Monthly Illustrated List will be sent on application.

# R. HOVENDEN & SONS, Ltd.

29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W. Tel. No.: Museum 2310 (3 lines).  
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**LONDON.**

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Are you building your business upon the unshakeable rock of Supreme Quality—the only secure foundation?

Part rock and part sand will let you down.

Burroughs Wellcome & Co.'s business is built on the rock and will continue there.

Every B. W. & Co. product you sell gives the utmost satisfaction to the customer and adds to your business stability.

If you are about to buy liquid paraffin, order '**PAROLEINE**'<sup>(TRADE MARK)</sup>. It is one of the "B.P. or Better" products of Burroughs Wellcome & Co., and, what is of special importance, its viscosity conforms to the standard laid down in investigations published in the medical press as essential in liquid paraffin for intestinal lubrication.

'**LAXAMEL**'<sup>(TRADE MARK)</sup> is of interest as a preparation containing 80% (approx.) of 'PAROLEINE.' It is pleasant to both eye and palate, efficient and absolutely harmless.

'PAROLEINE' is supplied in bottles of 4 fl. oz. at 16.0 and 1 lb. at 48.0 per dozen bottles, respectively. 'LAXAMEL' is supplied in large glass jars at 18.0 per dozen. Prices subject.



BURROUGHS WELLCOME & CO., LONDON



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(Reg. No. 291417)

# KILLS

**BUGS, FLEAS, MOTHS, BEETLES, etc.**

**NO DISAPPOINTMENT WHEN 'SECTO' IS USED.**

**3d. Tins, 2/3 per doz.**

**6d. Tins, 4/- per doz.**

**1/- Tins, 8/- per doz.**

*(Subject to our usual profit-sharing discount.)*

**SHOWCARDS, WINDOW BILLS, etc., Supplied.**

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## 'Panopepton'

'PANOPEPTON' presents the entire edible substance of prime lean beef and best wheat flour in a perfectly soluble, diffusible, and absorbable form. It is at once a grateful stimulant and food.

For an adult the usual portion should be a dessertspoonful to a tablespoonful several times a day and at bedtime.

Supplied in 6-oz. and 12-oz. bottles at **27/-** and **46/-** per doz.

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**50% stronger than the product of the 1914 B.P.**

**To make 24 oz. GLYCERINUM PEPSINI B.P.**

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Acid Hydrochloric ...	... 40 minims.
Glycerin ...	... 4 oz. 6 drms.
Distilled water, sufficient to produce ...	... 24 oz.

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## Coming Events.

#### Sunday, February 11.

Pharmacists' Volunteer Corps, Herne Hill entrance to Brockwell Park, at 10.15 A.M. Church parade.  
Birmingham Chemists' Field Ambulance, Wholesale Fruit Market, Moat Row, at 10.30 A.M. Squad and company drills. The other fixtures during the week are: February 14, Thorpe Street Drill Hall, at 3 P.M. (drill); February 15, Bristol Street Council School, at 8.30 P.M. (lecture); February 17, Bristol Street Council School, at 3 P.M. (drill).

#### Wednesday, February 14.

Manchester Pharmaceutical Association, School of Technology, Whitworth Street, at 3 P.M. Mr. J. Green, M.Sc., on "Pharmacy in the New Era."  
Newcastle-upon-Tyne Pharmacists' Association, Church Institute, Hood Street, at 6.30 P.M. Mr. H. W. Noble, lantern-lecture on "Wayside Drugs."  
Western Pharmacists' Association, Restaurant Frascati, Oxford Street, London, W., at 9 P.M. Mr. C. T. Allen on "X-ray Work for Pharmacists."  
Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 8 P.M. Mr. A. A. W. Cuthbertson on "Conditions of Work in a Large Chemical-factory"; Mr. H. Stout will make a communication, and Mr. David Murray will give a realist's view of "The Reconstruction of Pharmacy."

#### Thursday, February 15.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M.  
Glasgow and West of Scotland Chemists' Association, 165 Hill Street, Claring Cross, Glasgow, at 8.30 P.M. Miss E. Miller, "Experiences and Observations in a Red Cross Hospital."  
West Ham Association of Pharmacists, London Tavern, Fenchurch Street, London, E.C., at 6 P.M. Annual dinner.

## European War News.

#### Import and Export Notices.

DENMARK.—The restrictions notified in September last in regard to the import of egg yolk and albumen from the United Kingdom into Denmark have been cancelled.

NEW ZEALAND.—The importation of sanatozen has been prohibited, except with the consent of the Minister of Customs.

NORWAY.—It is announced that the restrictions on the importation of borax and boron compounds into Norway from the United Kingdom have now been cancelled.

SWITZERLAND.—The Swiss Post Office has informed the British Postmaster-General that the Customs declarations relative to parcels sent by post to Switzerland must furnish an exact description of the goods and the quantity (gross and net weight), as well as the value of each separate article.

UNITED KINGDOM.—The Director of the War Trade Department announces that arrangements have been made with a view to facilitating the export without Privy Council licence of samples, of no commercial value, of prohibited goods. Full details are published in the "Board of Trade Journal" of February 1. Samples of the following goods may not be exported except on production of a Privy Council licence: Atropine and its salts, emetine, eucaine hydrochlor., eucaine lactate, novocain, nuxvomica alkaloids and their salts, santonin, salvarsan and neo-salvarsan, with others less important. The following items have been transferred from the "C" list to the "A" list of prohibited exports, which means prohibition "to all destinations": Bones in any form and bone ash; anthracene oil, and mixtures and preparations containing anthracene oil; creosote and creosote oils (except wood-tar oil), and mixtures and preparations containing such creosote or creosote oils; green oil, and mixtures and preparations containing green oil; potash, muriate of; potassium sulphate; zinc oxide. Potash salts remain in the "B" class, but the item has been amended, and now reads: "(B) Potash salts (except potassium chlorate, muriate, nitrate (saltpetre), perchlorate, permanganate, and sulphate), and mixtures containing such potash salts.

#### The War Loan.

We are informed that the directors of Virol, Ltd., have arranged to make advances, free of interest, to all members of their staff for the purchase of War Loan. Borax Consolidated, Ltd., is also arranging with employees to purchase for them 5l. worth, or multiples thereof, employees paying by authorising a weekly deduction from their wages of 1s. for each 5l. of Loan purchased. Among the large subscriptions to the Loan notified since our last issue are the following: Colonel Brotherton (chairman Brotherton & Co., Ltd., Leeds), 500,000l.; M. Samuel & Co., 200,000l.; Salt Union, Ltd., 150,000l.; British Syphon Manufacturing Co., 100,000l.; United Glass Bottle Manufacturers, 100,000l.; Chance & Hunt, Ltd., 100,000l.; R. W. Greff & Co., 60,000l.; C. E. Fulford, Ltd., and Partners, 25,000l.; Wrigley's Chewing Gum, 25,000l.; The British Drug Houses, Ltd., 20,000l.; International Sponge Importers, Ltd., 10,000l.; Icilmia Co., 10,000l.; R. C. Treatt & Co., Ltd., 5,000l.

#### Scientific Research.

The Advisory Council of the Government's Department of Scientific and Industrial Research have added to the list of their Technical Committees a Standing Committee on Glass and Optical Instruments, of which Professor H. Jackson is Chairman. Among the problems that the Committee has referred to Sub-Committees are: (a) Raw materials for glass and glass-making; (b) optical properties of a large range of glasses; (c) general physical and chemical properties of glass and glassware for scientific and industrial purposes; (d) testing and standardising of glassware; (e) workshop technique; (f) x-ray glass apparatus; (g) optical calculations and lens designing; (h) optical instruments; (j) translation of foreign works on optics. The Standing Committee is prepared to consider and report upon the necessity for investigation in other directions, relevant to its terms of reference. Manufacturers who have experienced difficulties requiring investigations for their solution in connection with glass and optical instruments, or who desire to make suggestions for special researches on these subjects, are invited to communicate in the first instance with the Secretary of the Research Department, Great George Street, Westminster, S.W.

#### Miscellaneous.

BAYER'S CHEMICAL-FACTORY at Leverkusen was last week blown up, and two streets near it were ruined, so a Dutch paper reports.



**SECOND-LIEUTENANT ALBERT EDWARD PHELAN**, of the Northumberland Fusiliers, has been awarded the Military Cross for conspicuous gallantry in action. Second-Lieutenant Phelan is a pharmaceutical chemist, and prior to the war was in business at Nottingham. He has been at the Front for nearly eighteen months.

**PROHIBITED EXPORTS.**—A Supplement to the "Board of Trade Journal" of January 25 contains complete lists of articles which, according to the latest information received by the Board of Trade, are prohibited to be exported to various destinations from the Straits Settlements, Hong-Kong, Nigeria, Gold Coast, Jamaica, Barbados, Trinidad and Tobago, and British Guiana.

**GOODS OF ENEMY ORIGIN.**—The third supplement, dated January 18, to the "London Gazette" of January 16 comprises a list of goods which have been seized by the directions of the Commissioners of Customs and Excise, under the Customs laws, as being of suspected enemy origin. The particulars given in respect of each item are: Name of vessel carrying the goods, and its date of arrival; number of parcels; description of contents; persons purporting to be consignor and addressee.

**GERMANS IN HOLLAND.**—Some months ago there was established in Holland a limited company to manufacture the well-known mouth-wash "Odol." The company has not yet started making the article, and the goods are still imported into Holland from Dresden, but the labels already show the name of the Dutch company as the manufacturers. The foregoing information was published in a letter to "The Times" by the secretary of Wood-Milne, Ltd., Preston, who gives particulars of how their trade-mark is being attacked in Germany and Holland.

**ENEMY PATENTS.**—British Dyes, Ltd., Huddersfield, are applying for licences to use twenty-one patents for dyestuffs, thirteen belonging to the Badische Anilin und Soda Fabrik, six belonging to the Farbwerke vormals Meister, Lucius & Brüning, one to the Chemische Fabrik Griseheim-Elektron, and one to the Act.-Ges. für Anilin Fabrikation. C. Moeller and J. T. Steel, trading as the British Duroc Co., Bradford, are applying for patents 4688/06, "Fluid Emulsions of Oil, Fats, etc.," and 6731/09, "Amides of the Higher Fatty Acids," belonging to Kesters. The same applicants ask for the avoidance or suspension of trade-marks 281895-900, belonging to Duroc Co., Ltd.

## Wills.

The late Emeritus Professor Thomas Purdie left estate valued at 72,517*l*.

MR. SAMUEL COURTNEY, Bizerta, Knockdene Park, Belfast, managing director of Samuel Courtney, Ltd., chemical-manufacturers, left personal estate in the United Kingdom valued at 5,909*l*. 6*s*. 7*d*.

MR. FREDERICK MURISON, Ferryden, Wraysbury, Bucks, a director of Burt, Boulton & Haywood, Ltd., chemical-manufacturers, who died on October 10, 1916, aged sixty-eight, left property of the value of 24,752*l*. 5*s*. 8*d*., including personality of the net value of 22,188*l*. 15*s*. 4*d*.

MR. CHARLES UMNEY, Fernbank, Branksome Wood Road, Bournemouth, chairman of Wright, Layman & Umney, Ltd., Southwark, S.E., who died on November 23, has left estate of the value of 42,793*l*. 10*s*. 1*d*., including personality of the net value of 36,931*l*. 19*s*. 9*d*. The will is proved by his sons, Dr. W. F. Umney, Percy Umney, and Reginald Umney. The testator gives 1,250*l*. and furniture of the value of 250*l*. to his wife; 1,000*l*. between his sons Mr. John C. Umney and Mr. Ernest A. Umney; 100*l*. to the Benevolent Fund of the Pharmaceutical Society; 50*l*. to his housekeeper; 30*l*. to his cook; 20*l*. to his gardener; and the residue of the property to the children of his first marriage other than his sons John Charles and Ernest Albert, for whom provision has already been made.

**TRIMETHOL**, recommended by Dr. J. T. Ainslie Walker as an intestinal antiseptic, is a 50-per-cent. gelatin emulsion of a benzene derivative of 1-2-4-5-6-trimethylmethoxyphenol, with the formula  $C_6H(CH_3)_3(OCH_3)OH$ . It is administered in the form of gelatin capsules containing 2½ minims, or as a syrup.

**RUSSIAN CHEMICAL INDUSTRY.**—The British Vice-Consul at Moscow reports that the war has compelled Russia to develop her own chemical industry, and a certain number of works have already been erected, while many are projected. A large company has been formed in Moscow, with a capital of about 425,000*l*., for the erection of a coke and benzole works.

## Alien Enemy Patents.

### Salvarsan.

At the Patent Office Court on February 1, the Diarsenol Co., Toronto, applied for licences to use the five salvarsan patents owned by the Farbwerke vormals Meister, Lucius & Brüning. The Comptroller-General (Mr. W. Temple Franks) presided, and with him was Sir Cornelius Dalton. Sir George Marks, who appeared for the applicants, said the Diarsenol Co., a British company, has built up a large business in Canada, having been granted the use of the Canadian patents on a royalty basis of 5 per cent. Sir George said that the demand for salvarsan is not met by the present licences, and he referred to fatalities which he said had occurred when salvarsan substitutes have been employed.

Mr. G. B. Ellis, representing Mr. Bresillon, who some time ago applied for a licence to import salvarsan but who withdrew the application, said he thought the licence should be granted.

Mr. Warden, for Burroughs Wellcome & Co., opposed the grant of licences, and reminded the Comptroller that it was stated at the time when an application was made by Evans Sons, Lescher & Webb, Ltd., that the question might arise whether more licences should be granted. Mr. Warden further stated that Burroughs Wellcome & Co. had bought the original plant set up by the patentees for the manufacture of salvarsan in this country, and this has enabled Burroughs Wellcome & Co. to treble the output of kharsivan. He objected to the way in which Sir George Marks had endeavoured to besmirch salvarsan substitutes.

Mr. Armstrong, on behalf of Poulenc Frères, also opposed, stating that his clients are making the product at Battersea, and on a scale that enables them not only to meet all demands here but to admit of the exportation.

Sir George Marks, replying, reasserted that there is a real shortage, and said he could produce evidence from inquiries made on behalf of the Canadian Contingent.

Mr. Warden: Burroughs Wellcome & Co. have executed orders for the Canadian Contingent. The firm has 10,000 tubes in stock.

Sir George Marks, continuing, said he had not intended to besmirch a firm of the standing of Burroughs Wellcome & Co. His clients would fall in with a suggestion for a licence of limited duration.

The Comptroller said that there appears to be a large and increasing demand for the product. The evidence would be placed before the Board of Trade.

### Dia-wheat and Dia-paraffin.

On February 8, Mr. A. E. Melhuish applied on behalf of Messrs. H. A. Taylor and D. D. Taylor, trading as the British Diamalt Co., Bishop's Stortford, for licences to use Patents 13928 of 1913, "Process of Manufacturing Highly Active Extracts Rich in Enzymes and Nitrogenous Matters for Use in Baking, for Medicinal, and other Purposes," and 26390 of 1913, "A New or Improved Process of Producing Dry Pulverulent or Pulverizable Compounds of Mineral Oils and Solids of Wax and Malt Extract or Malto-dextrin," taken out by Dr. Max Hamburg. The first patent is that used in the manufacture of "dia-wheat," and the process described in the second one produces the preparation known as "dia-paraffin."

Mr. Melhuish explained that Dr. Hamburg was in the service of applicants as manager and chemist to the department of their business where the preparations were made. Applicants had an agreement with Dr. Hamburg for a sole and exclusive licence to use the patents. The patents, however, had not been sealed, and it was desired to do this and to vest them in the custodian of enemy property.

In answer to Sir Cornelius Dalton, it was stated that application was not being made for Patent 29481 of 1912, which is referred to in the dia-paraffin patent—the latter being in the nature of a patent of addition.

Mr. E. Hayter, manager of the applicants' firm, was examined as to the agreements entered into with Dr. Hamburg and the amount of the royalties paid to the patentee. A good deal of money has been spent in introducing the preparations, and the output is an increasing one. Dr. Hamburg came from Germany originally to superintend the manufacture of diamalt, for which a secret process is used.

Some discussion took place on the technical difficulty of granting exclusive licences, the Comptroller remarking that, as applicants owned the trade-marks and had documents to show their position, they would have a good claim to oppose any other grants, and would be entitled to every consideration.



## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

### Society of Apothecaries of London: Assistants' Examination.

At the examination held in London on January 22, 24, 25, and 26, the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:

Bacon, F.	Henn, F.	Sandham, E. G.
Bateman, F. M.	Henry, E. M.	Searth, M. C.
Bauer, E. G.	Hicks, H. M.	Shepherd, M. E.
Brown, M. G.	Hill, D. B. B.	Sibley, L. G.
Bullock, M. L.	Holford, B. A.	Simson, I. A. E.
Carins, M. E.	Holland, B.	Smith, B. E.
Catley, E. M.	Hudson, D. A.	Smith, E.
Chang, B. W.	Hughes, E. M.	Stedman, A. I. D.
Chilton, E.	Jordan, B.	Stileman, B. M.
Cork, M. D.	Lansley, E. N.	Stokes, M.
Cornish, M. P.	Leach, E.	Summers, L. B.
Cortes, E. D.	Lee, K. A.	Sykes, G. S. C.
Dale, E.	Leeming, F. M.	Sykes, M.
Daniel, M. V.	Masters, E. M.	Symons, E.
Darlington, M. R.	Morgan, N.	Tallent, E. K. C.
Davies, G. C.	Mawle, E. M.	Thorpe, D. G.
Donald, L.	Nicholson, B.	Tweedie, W. H.
Donaldson, E. H.	Nockolds, P. C.	Unwin, H.
Durden, M. E.	Norton, M.	Vowles, Edgar
Falls, K. B. V.	Oiver, D. E.	Walker, A. E.
Fisher, L. E.	Parsons, I. W.	Walker, A. P.
Forsayeth, E. C.	Pennethorne, G.	Weatherley, N. C.
Foster, K. M.	Pepper, M. A.	Weller, C.
Gauge, A. F.	Pole, C. M.	West, M.A.
Gill, G. M.	Porkinghorne, M. L.	Weston, D.
Graham, J.	Pye, E.	Weston, G. O.
Hailey, W. J.	Reeves, M.	White, D.
Hall, D. M.	Rimell, R.	Wilkinson, A. G.
Hawes, D. B.	Roberts, G. A.	Williams, F. M.
Heddy, J. M.	Rogers, E. A. M.	Yount, E.
Heenan, H.	Roper, H. F.	

### Poor-law Orders.

The Special Committee of the National Poor-law Officers' Association is submitting several recommendations to the Departmental Committee appointed by the Local Government Board to revise Poor-law orders which are of vital importance to Poor-law dispensers. The first is that provincial dispensers, and London dispensers who do not come within the scope of the Metropolitan dispensers orders, shall have the same security of tenure as dispensers under the Metropolitan order. The second is that the general order of June 7, 1895, shall be carefully considered, with a view to an attempt being made to safeguard the status of the Poor-law dispensers. Another recommendation, while of an omnibus character, would safeguard the dispensers of some years' service (ten years is the earliest period for which a pension can be claimed). It is that all officers having ten years' service should have a right of appeal to the Local Government Board in case of dismissal, and in case of termination of office from any cause, save grave misconduct, they should be entitled to compensation for loss of office. It is further recommended that in the interest of the patient all drugs supplied on the orders of the medical officers should be paid for by the Guardians.

### Birmingham.

Mr. Laurence C. Tipper, Balsall Heath Drug Mills, who has been appointed Chairman of the Worcestershire Chamber of Agriculture, is arranging a visit to be addressed by Mr. Prothero when he visits Birmingham. He is also arranging the entertainment of one thousand wounded soldiers at a matinee at the Empire Theatre.

Mr. Wilfrid Hill has been appointed by Mr. Neville Chamberlain, Director-General of National Service, to an important post in his Department in connection with recruiting-work. He will give up his position as head of the County Chemical Co., Ltd., for a time, and devote himself entirely to his new office, which will keep him in London for the first few weeks.

The Birmingham Chemists' Field Ambulance wants fifty recruits immediately. Membership is open to pharmacists, dispensers, chemists, opticians, laboratory and dental assistants, and all engaged in pursuits connected with drugs and chemicals. The Acting Adjutant (Mr. H. Rayne, 28 Bath Row, Birmingham) will supply full particulars, and applications should be made to him. Those who are unable to become active members are invited to become honorary subscribing members, also to attend the lectures. Sir Thos. Barclay, J.P., has consented to become the President of the Ambulance.

### Liverpool.

A short period of thaw, followed by snow, thaw, and resumed frost, seems to have multiplied cases of influenza. The demand for cough-mixture, a popular price being 1s. 3d. per bottle, is unprecedentedly high.

The Clerk of the West Derby Board of Poor-law Guardians (Mr. Harris P. Cleaver) reported last week that, with the consent of the outdoor poor, their weekly allowance of sugar had been cut down by from 15 to 25 per cent. The pharmacists of the city will appreciate this economy.

Mr. D. H. Evans (Lodge Lane), Hon. Secretary of the Liverpool C.A., has received many congratulations on his comprehensive, concise, and informing annual report, one which should have an educational effect in any district where propaganda is needed and sought. Mr. W. P. Evans, the President, paid the Secretary a high compliment on the report at the annual meeting.

Mr. W. P. Evans' presidential address to the Liverpool Chemists' Association on January 31 (C. & D., February 3, p. 45) was quiet yet effective. "Is the Association keeping up to date in pharmacy and other trade matters" was a question that he answered well by simply quoting from his address a year ago, and he added:

"This Association is holding its place as the premier Association in Great Britain. I do not take any credit myself, because it is you, gentlemen, who have exceeded what I asked you to do last year, which makes our Association stand in the position it occupies at the present day. Is there any Association that is getting an average attendance of fifty to sixty at their meetings? I call that in these times a very good percentage, and it shows that the chemists are taking an interest in the Association and backing up the officers in the work they are trying to do. A better feeling exists between us all; more rubbing together of shoulder to shoulder. There is an *esprit de corps* which, I venture to say, is better than ever before. Council members have attended the Council-meetings hardly without an absentee. There is something which makes the members come to the meetings, and they hear something which perhaps they have not heard before from the different speakers. Personally, there were several members of the Association I had not come in touch with before, but I am glad to say I have made many friends during the twelve months, and it is to the advantage of myself as President."

He also touched upon the arrangements for the coming year, hoped that by October there will be freedom from war, and stated that a smoking-concert for the Benevolent Fund will be held as last year, when 50% was obtained.

### Manchester.

Police officers are going the round of chemists' shops in Manchester and Salford warning the proprietors of the dangers they run in connection with the sales of cocaine or opium and their preparation. This is in consequence of the conviction of a local chemist (p. 37).

There has been quite a demand for saccharin-tablets recently, many pharmacists having completely sold out, and great difficulty is being experienced in getting supplies to meet the demand. Fancy prices have been obtained in some instances.

Owing to the very severe and wintry weather chemists are having a particularly busy time. Cough-mixtures containing glycerin (customers' own recipe) have been in frequent demand, refusal to supply very often being accepted in a brusque manner.

At the annual meeting of the Manchester and Salford Hospital for Skin Diseases on February 6, increased expenditure was attributed to the higher costs of drugs. The pre-war and December 31, 1916, prices of acid, acetylsalicylic, ferri quin. eit., potass. caustic., resorcin, and zinc oxide were in this connection contrasted.

At the annual meeting of the General Committee of the Manchester and District Radium Institute this week, the Lord Mayor of Manchester said that since the opening of the Institute 1,000 patients had been treated with radium with very satisfactory results. A member asked how long it would be before they would require any more radium, and Sir William Milligan replied it would be twenty thousand years before they would need a new stock of radium.

### Sheffield.

Mr. T. Bell, the assistant dispenser at the Royal Infirmary, has joined the R.A.M.C. He has been temporarily replaced at the infirmary by a lady.

Pharmacists must, when reporting during the first week in each month to the chief recruiting officer in regard to the men employed of military age, give on the same form the number only of men of non-military age, also the number of females engaged.

The Speaker's Committee on the Franchise will affect Sheffield if carried out, giving seven members in the House in place of five. The graduates of the University will be



grouped with Durham, Bristol, Birmingham, and the northern universities and given a vote for one member. This will apply also to women graduates.

The calling-up of youths of eighteen is likely to cause serious inconvenience to chemists, as these lads are a very useful help to the depleted staffs. The chance of securing conditional exemption is very remote unless the medical examination shows a classification of C 3. Even then a strong case will have to be shown why the lad should not release some recruit for general service.

Mr. A. R. Powell, Upwell Street, although in a district where little attention is given to window-dressing by general traders, always maintains both a pleasing and profitable display in his window. At the present time he has one window devoted to P., D. & Co.'s cod-liver-oil emulsion and virol. The second window, with a maroon background and white facings, is given up to a display of his own preparations.

#### Miscellaneous.

A FIRE occurred on Sunday morning, February 4, at Carter, Paterson & Co.'s premises contiguous with The British Drug Houses' factories and warehouse in Graham Street, London, N. Some water damage was done to the latter, but business was in no way interrupted.

EARLY-CLOSING OFFENCE.—At Lowestoft on February 5, Ivan Rogers, chemist's manager, Raglan Street, Lowestoft, was fined 6s., and 4s. costs, under the Shops Earliest-closing Order, for serving customers after 9 P.M. on Saturday, January 27. A constable had bought a 1s. bottle of scent at half-past nine.

GLYCERIN FOR HOSPITAL USE.—The Southwark Board of Guardians have decided to accept the quotation of Allen & Hanburys, Ltd., for a supply of glycerin to the military hospital at Camberwell (formerly the Board's infirmary), subject to the conditions laid down by the Minister of Munitions, and on payment of the account within a month.

BRIBERY PREVENTION LEAGUE.—Among the new members who have joined the Bribery and Secret Commissions Prevention League, Incorporated, recently are Mr. T. E. Lescher (representing the Drug Club), Mr. W. A. Barton Kent, Mr. J. C. Umney, William Cooper & Nephews, Keyes' Sanitary Compounds Co., Ltd., John Knight, Ltd., and James Pascall, Ltd.

BATH COLLEGE OF PHARMACY.—Mr. C. G. Ostler, late lecturer and demonstrator at the College, is offering a scholarship for competition in March. This Ostler scholarship is to be annual, and will entitle the holder to one term's free tuition at the College. Intending competitors must apply before March 10 to the Secretary, who will furnish all particulars to inquirers.

THE ST. JAMES'S INFIRMARY COMMITTEE of Wandsworth Union have decided to appoint a resident dispenser in order to avoid the necessity of the assistant medical officers having to do such dispensing as may be necessary after the time it has been customary for the dispenser to have left the premises (6 P.M.). A woman is to be appointed at 105*l.* per annum and resident allowances.

ROBBING DRUGGISTS' STORES.—At the Dartford Police-court on February 2, Thos. Alfred Rossiter and William Henry Orchard were fined 20s. each for stealing drugs belonging to their employers, Burroughs Wellcome & Co. It was stated that the prosecutors had lost a large quantity of drugs since the war began. Part of the property stolen by accused consisted of saccharin-tablets.

REGISTRATION OF BUSINESS NAMES ACT.—The Registrar at 39 Russell Square, W.C., states that when a limited liability company inquires whether it is affected by the Act, he replies (1) that such a company will have to register, if it carries on business wholly or mainly, as the nominee or trustee of or for another person, or other persons, or another corporation; or (2) if it acts as general agent for a foreign firm. Forms of application for registration will be obtainable from any post-office on or about February 19.

HEADACHE-POWDER.—An inquest was held at Beverley, on January 31, on the body of Jane Gray (48), who died after taking a headache-powder. The evidence showed that Mrs. Gray had a bad bilious headache on Sunday and took a headache-powder. Feeling no better later on in the day she took two more powders, and shortly after two o'clock she became unconscious and remained so until Tuesday night, when she died. Dr. Skipworth said that death was due to heart-failure consequent upon taking the powders. Deceased was a weak subject, and no doubt they took more effect on her than on a stronger woman. A verdict in accordance with the medical testimony was returned.

THE CONSPIRACY CHARGE.—The case against Alfred George Mason, chemist and druggist, and three women, who are

charged with conspiring to murder the Prime Minister and Mr. Arthur Henderson, came on for hearing at Derby on February 3 (see *C. & D.*, February 3, p. 36). The Attorney-General, in opening the case, referred to some phials of poison sealed with paraffin-wax, which, it was alleged, were supplied by Mason for the purpose of carrying out the murders. The phials, labelled A, B, C, and D, had been examined by an experienced analyst, Mr. Webster, and found to contain—A, strychnine hydrochloride, 7½ grains; B, solution of strychnine hydrochloride (1 grain per ounce); C, brown fragments, soluble in water to the extent of 80 per cent., believed to be curare; C, a brown turbid liquid produced by treating the contents of C with water. The prisoner gave directions for using these substances, and offered to supply microbes if required. The Attorney-General said that Mr. Cook, the senior laboratory attendant at Hartley College, would be called to say that two or three months before Christmas Mason brought to the laboratory a sample of poison in a small bottle to lecture on to two students. After the lecture Mason gave the bottle to Mr. Cook and asked him to lock it up carefully as it was Indian arrow-poison, or curare, and if a little got into a scratch it would kill quickly. Shortly after Christmas Mr. Mason called at the college while the students were on their holidays and asked Cook to get him the bottle. Mason then in the laboratory took cut the cork and emptied some of the contents of the bottle on to a balance and weighed it. He then made it into a solution and put the solution in a test-tube. Cook suggested that he should seal the bottle up with wax, and gave him some white paraffin-wax for the purpose. Before going away Mason gave the original bottle back to Cook, who labelled it and put it back.—On February 5 Mr. John Webster, F.I.C., assistant analyst to the Home Office, gave evidence regarding his analyses of the contents of the tubes referred to. Dr. B. H. Spillsbury, pathologist, gave evidence regarding the action of strychnine and curare. No fatal case has been recorded in literature of curare-poisoning. Miss Tarbitt, a student at the Hartley University College, Southampton, where Mason was a lecturer, spoke of the instruction given in a lecture regarding curare.—At the Derby Assizes on February 7, before Mr. Justice Rowlatt, a true bill was found against all the prisoners, and with their consent the trial was postponed.

## Irish News.

#### Brevities.

Mr. C. J. Still, lecturer and demonstrator in chemistry in the Municipal Technical Institute, Belfast, has resigned that position on appointment as research chemist to Levinstein, Ltd., Manchester.

Mr. D. S. Bennett, M.P.S.I., Cahirciveen, has written to "The Evening Herald," Dublin, an interesting statement regarding Robin Adair, the Irish surgeon who married Lady Caroline Keppel, who wrote "Robin Adair."

Mr. J. W. Hatch, who for some years was a member of the dispensing staff of Gratton & Co., Belfast, and at present Eastern representative of Oppenheimer, Son & Co., Ltd., has been granted a commission in the 1st Cadet Battalion King's Royal Rifles.

At the Cahirciveen Quarter Sessions, before County Court Judge Drumgoole, Mr. John Reidy, Ph.C., Cahirciveen, was granted a decree for 4*l.* 6*s.* 7*d.* and costs against the Great Southern and Western Railway Co. for non-delivery of empties to their destination.

Mr. H. V. Golden, Ph.C., Birr, has written to the North Tipperary Insurance Committee intimating that if supplied with the prices charged by other chemists he would take 25 per cent. off the cost of all medicines. The Clerk (Mr. Nalon) said Mr. Myles, another Birr chemist, had also agreed to the terms, but so far Mr. Go'den had supplied all medicines required. It was decided that Mr. Myles be given the contract unless Mr. Golden supplied the drugs at the same rate as the other chemists.

A meeting of the creditors of Mrs. Mary J. Byrne, trading as James Byrne, druggist, etc., Clonmel, was held in Dublin on January 29. The unsecured liabilities were stated to be 2,811*l.* 5*s.* 7*d.*, and the assets were estimated to produce 487*l.* 17*s.* 11*d.*, after deducting preferential claims, disclosing a deficiency of 2,323*l.* 7*s.* 8*d.* The meeting was adjourned. Among the creditors are Boileau & Boyd (Dublin), 90*l.*; Battle, Maltby & Bowen (Lincoln), 12*l.*; W. Cooper & Nephews, 12*l.*; Evans Sons Lescher & Webb, Ltd., 40*l.*; J. C. & J. Field, Ltd., 15*l.*; G. W. Harrison (Reading), 23*l.*; Vinolia Co., Ltd., 90*l.*; John Timpson & Co., 10*l.*; Parke, Davis & Co., 11*l.*



## Scottish News.

### Aberdeen.

Dr. Rose, chief medical officer of the School Board, in his report for 1916, states that over 60,000 children have passed through the hands of the medical officers in systematic examination. Nearly 1,000 pupils received dental treatment. The report adds that where the tooth-brush has been regularly used the teeth have been found in good condition.

### Edinburgh.

St. Cuthbert's Co-operative Association, Ltd., has contributed 200,000*l.* to the War Loan.

"A well-known Edinburgh chemist" has been telling a local newspaper representative that he has never experienced anything quite resembling the rush during the past week or so. "A prominent doctor" says something similar.

Local grocers are surprised at the eager fashion in which chemists snap up sugar of any description. A chemist purchased a hundredweight of very dark brown shade which the grocer had despaired of turning into money. The price was about 5*d.* per lb., and both parties were well pleased.

### Glasgow and the West.

A Herb-Growers' Association for Glasgow and the West of Scotland was formed at a meeting held in the Christian Institute, Glasgow, on February 2. Bailie Duncan Graham was the Chairman, and Mr. A. J. Dunlop, C.I.E., Largs, submitted the motion for the formation of the Association.

Recent business changes include the purchase by Mr. Thos. Mackinnon, chemist and druggist, of the business belonging to A. McLean & Co., 168 Langlands Road, Govan, which Mr. Mackinnon intends to give his personal attention. This makes five shops in Govan under Mr. Mackinnon's control.—Mr. J. B. McVittae has sold his branch shop at 240 Kilmarnock Road to Mr. Alex. H. Brown, chemist and druggist, who has been the manager of the shop for two and a-half years. Mr. Brown intends to conduct the business under the present name for two years.

At the Sheriff Summary Court on February 2, Sheriff Marcus Dods fined William Killin 100*l.* for exporting in September 1915 a quantity of opium to Shanghai, also, in September 1916, exporting 190 lb. of opium, making a false declaration to the Customs so as to secure its shipment. In the course of the hearing it transpired that Killin had been induced by a body of conspirators engaged in this illegal traffic to arrange the shipments. The Provost Fiscal stated that conspirators could not get opium exported themselves, and they used for the purpose men known to the Customs as legitimate traders.

## French News.

(From the "C. & D." Paris Correspondent.)

**REPLACING ENEMY TRADE.**—British firms wishing to replace German and Austro-Hungarian articles by French goods, either at the present time or in the future, should write, giving full particulars of their requirements, to the Office National du Commerce Extérieur, 3 Rue Feydeau, Paris (2*c.*). This institution, which is a branch of the French Ministry of Commerce, will put them in touch, free of charge, with suitable French manufacturers. Well-established agents desirous of representing French firms may also apply to the Office National du Commerce Extérieur for all information, which will be furnished free of charge.

**GERMAN KULTUR.**—A letter from Amsterdam, which seems to have been written in Lille about November 10, 1916, brings details of the tragic death of Monsieur Oscar Fanyau, a well-known Lille pharmacist, in his seventieth year. The letter says: "Our friend Oscar Fanyau died in tragic circumstances. All copper had been requisitioned, even art copper, in the district where he lived. He, together with some other notable men, protested. For this he was condemned to a fine of 10,000 marks and six months' imprisonment. When the Germans arrested him at his house he protested, saying that as an old French officer, who had fought in '70, he had no need to submit to the orders of the enemy. He was taken to the prison at Loos, and fell down dead as he entered his cell. The funeral, which took place on October 28, was very impressive, and the number of wreaths was the largest ever seen at any funeral at Lille."

## Legal Reports.

**"Chocaroons" Trade-mark.**—Mr. Justice Eve, on the application of W. Williams & Co., Ltd., allowed "Chocaroons" to be registered as a trade-mark for chocolate macaroons, dismissing the appeal of Cadburys, Ltd., and Rowntrees, Ltd. (*C. & D.*, October 21, 1916, p. 37). The appellants appealed to the Court of Appeal, London, which delivered judgment on February 6, and their Lordships (the Master of the Rolls, Lord Justice Warrington, and Mr. Justice Lawrence) allowed the appeal, and set aside Mr. Justice Eve's decision.

**Sale of Cocaine.**—At Manchester City Police Court on February 1, Mr. Gordon Stewart Galloway, chemist and druggist, Oxford Street, Manchester, was charged, under the Defence of the Realm Regulations, with supplying hydrochloride of cocaine without registering certain particulars required in accordance with the provisions of Section 40 B of the Regulations. Detective Rabbitt said he found in the defendant's prescription-book a prescription which included the drug mentioned. The defendant had omitted to enter the proper particulars relating to the purchaser and the medical man who prescribed, and said that he took initials which appeared in a corner of the prescription to be those of the medical man. The defendant, in answer to the charge, said he never sold cocaine or opium without a doctor's prescription. Mr. Brierley said he felt bound to inflict a fine of 5*l.* There appeared to have been great laxity on the part of the defendant. It was a very serious matter.

**sulphuric-acid Plant.**—The case of Hart Bros. & Co., Ltd. v. J. Brown & Co., Ltd., came before the Court of Appeal, consisting of Lords Justices Swinfen Eady, Bankes, and Scrutton, on February 1, upon the appeal of the plaintiffs, chemical-manure manufacturers at Keadby, near Doncaster, from a judgment of Mr. Justice Rowlatt in favour of the defendants, manufacturing chemists at Dewsbury (see *C. & D.*, July 15, 1916, p. 40). Plaintiffs brought the action against the defendants to recover damages for their alleged breach of contract to erect a sulphuric-acid plant at the plaintiffs' works equal to plants working at Dewsbury, Ravensthorpe, and Thornhill, the structure to be according to plans of February 1913, and to be capable of producing not less than the equivalent of 100 tons of sulphuric acid per week at 140 degrees Tw. A question of increase in capital of the plaintiff company was also involved. After hearing the arguments, their Lordships affirmed the decision of Mr. Justice Rowlatt and dismissed the appeal with costs.

**Libel Action Against the B.M.A.**—In the King's Bench Division, London, on February 6, before the Lord Chief Justice, an application was made in the case of Pratt and Others v. The British Medical Association and Others. Mr. McColl, K.C., for the defendants, said the cause of action was an act by the British Medical Association and its officers, extending from 1907 until the issue of the writ. Plaintiffs claimed damages for alleged libel, slander, and conspiracy. They were engaged in a dispensary at Coventry, of which the Association and its members strongly disapproved. The Association held a number of meetings and inquired into the circumstances, making various reports upon the plaintiffs' conduct as being injurious to the medical profession. After the inquiries were made certain reports were published, and these were the cause of action. Defendant pleaded, amongst other things, that the publication was privileged. Plaintiffs stated that the publication began in 1907, but the writ was not issued until 1915. Mr. Schwabe, K.C., opposed the application, submitting that there should be no unnecessary delay, and stating that if the case was postponed much longer the ruin of the plaintiffs would be complete. The Lord Chief Justice thought there must be a postponement. No doubt it was a hardship upon the plaintiffs that they could not bring the case for trial. Equally, justice must be done to the defendants, who by reason of the war were placed in a difficulty in getting their witnesses to the trial. The case must stand out to the beginning of the next sittings, and if the defendants were not then ready for the trial a further application must be made.

**Competition in the Soap-business.**—An agreement between the Associated Enterprises, Ltd., controlled by Lever Bros., Ltd., Port Sunlight, and Brunner, Mond & Co., Ltd., having for its object the regulation of competition in the soap-business, was the subject of an action which gave rise to an interlocutory appeal heard in the Appeal Court, London, before Lords Justices Swinfen Eady, Bankes, and Scrutton on February 5. Sir John Simon, K.C., who appeared for the plaintiffs, said the appeal was from the



decision of Mr. Justice Rowlatt, refusing an application of the plaintiffs for a writ of sequestration directed against the defendants, plaintiffs' allegation being that defendants had disregarded the terms of an injunction granted by Mr. Justice Sankey on October 31 last. The Associated Enterprises, Ltd., is owned by Lever Bros. Defendants, in November 1913, acquired the business of Joseph Crosfield & Sons, Ltd., Warrington, and William Gossage & Sons, Ltd., Widnes. In 1913 an agreement was made between plaintiffs and defendants, whereby the businesses of Crosfields and Gossages should be carried on for their mutual benefit, that Brunner, Mond & Co. should not be interested in any other soap-business, and that a pool should be formed, the object of which was to regulate competition between the parties to the agreement. Plaintiffs, in 1916, commenced an action for breach of the agreement. Mr. Justice Sankey granted an interim injunction to restrain, and plaintiffs complained that defendants had since committed a breach of that injunction, asserting that defendants were concurring in or assenting to an arrangement having for its object the cutting-off of the China soap-business by the formation of a new company, to be called the China Soap and Candle Co. Between this company and Crosfields, Gossages, and Price's Patent Candle Co. a new agreement had been made, and plaintiffs said that the carrying-out of this agreement would be a breach of the agreement of 1913. The defendants' answer was, "We have done nothing." Mr. Upjohn, K.C., for the defendants, said the agreement now being carried out was made six months before the injunction was granted, and Crosfields and Gossages were bound to do what had since been done. Defendants had no power to prevent, or only power through the medium of two meetings and alteration of articles of association. There was nothing in the injunction which called on them to do that. After Sir John had answered questions from the Bench, Lord Justice Swinfen Eady asked whether it was worth while pressing the motion. They were all of opinion that not only was it quite impossible to induce the Court to issue a writ of sequestration, but the proper course was for the matter to be dealt with at the trial. Sir John Simon asked for some protection meanwhile, and his Lordship said the Court made no order on the appeal except that the costs be the costs in the action; but they gave liberty to plaintiffs, if so advised, to serve fresh notice of motion for leave to issue a writ of sequestration to be dealt with at the trial. Mr. Upjohn said he had no objection to this.

## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

**AERO CHEMICAL SYNDICATE, LTD. (P.C.).**—Capital 1,000*l*. Subscribers R. Shield and T. H. Haynes (who signs as a director). R.O., 66 Victoria Street, S.W.

**ADAMS STORES, LTD. (P.C.).**—Capital 12,000*l*. Objects: To carry on among other businesses that of drug and chemical dealers. R.O., 15 Bank Parade, Burnley.

**MARSHALLS (PROVINCES), LTD.**—Capital 100,000*l*. Objects: To acquire certain property from Marshall & Snelgrove, Ltd., and to carry on business (inter alia) as dealers in drugs and chemicals, perfumery, soap and toilet requisites. R.O., 9 New Broad Street, London, E.C.

**P. WHIPMAN & CO., LTD. (P.C.).**—Capital 6,000*l*. Objects: To take over the business of drug and chemical merchants and importers carried on by P. Whipman and C. J. Patrick (the subscribers and first directors) as "P. Whipman & Co." at 4 New London Street, E.C.

**NITRATE TRADING CO., LTD. (P.C.).**—Capital 10,000*l*. Objects: To carry on the business of importers, exporters, and manufacturers of and dealers in nitrates and all products of which nitrogen forms the basis, iodides, acids, and other products, etc. The first directors are Harold Bjerke, Rus Station, Stendal, near Kristiania, and Eivind Dons, 47 Grove Park, London, S.E.

**PRICE'S PATENT CANDLE CO., LTD.** have declared a dividend for the half-year ended December 31 last of 1*l*. 5*s*. per share and a bonus of 7*s*. 6*d*. per share, less tax. A year ago the dividend was 1*l*. 4*s*., but the bonus was the same.

**BOYRIL, LTD.** have declared a dividend for the second half of the year 1916 on the ordinary shares at the rate of 9 per cent. per annum (making 7 per cent. for the year), less tax, and 9*d*. per share (3½ per cent.), free of tax, on the deferred shares for the year 1916.

## Bankruptcy Reports.

**Re John Chambers**, late of 22 Montpelier Walk, Cheltenham, Chemist and Druggist.—A meeting of the creditors was held at the office of the Official Receiver, Cheltenham, on February 6. The debtor now acts as an assistant at 78 Belle Vue Road, Leeds. His statement showed a deficiency of 137*l*. 14*s*. 8*d*., the gross liabilities being scheduled as 593*l*. 4*s*. 11*d*., and the amount expected to rank for dividend is returned at 308*l*. 4*s*. 11*d*. One creditor was stated to be fully secured for 275*l*. (the estimated value of the securities being 350*l*.). Book-debts were put down at 94*l*. 4*s*. 2*d*.; nine doubtful debts, 10*l*. 16*s*. 1*d*.; surplus from securities in the hands of the fully-secured creditor, 75*l*.

**Re John Wm. Surle**, late of 19 Cullum Street, E.C., Produce Broker.—At the London Bankruptcy Court on February 6, the public examination of this debtor was held before Mr. Registrar Mellor. The debtor applied to pass upon accounts showing total liabilities 6,459*l*. 14*s*. 9*d*. and assets 1*l*. 10*s*. He stated that he is of Dutch nationality, and until December 1909 carried on business at Rotterdam, but as it was not a success he then closed it and came to England. For a time he was in employment, but re-started business for himself at the above address in 1912, dealing largely in linseed oil and turpentine, and altogether lost 7,000*l*. in speculative contracts. This concluded the examination.

## Marriages.

**BOWLER-SCOTT.**—At St. John's Church, Buxton, on January 31, Mr. Ernest Edward Bowler, chemist and druggist, Belper, to Florence Emma, third daughter of Mr. Albert Scott, Newcastle-under-Lyme.

**DAVISON-AVERY.**—At Holy Trinity Church, Denford, near Thrapston, Northants, on February 1, George Davison, pharmacist, Nuneaton (only son of the late J. T. Davison, of Stamford), to Florence, only daughter of the late G. Avery, of Denford.

**NISBET-EVANS.**—At Frimley Church, Aldershot, on February 1, by the Rev. Canon Tyrwhitt, William John (Lieut. R.F.A.), only son of the late Mr. James Nisbet, of Buenos Aires, and Mrs. Nisbet, now of London, and grandson of the late Dr. Nisbet, of Wallasey, to Esther Josephine, second daughter of Mr. W. P. Evans (Evans Sons Lescher & Webb, Ltd.).

## Deaths.

**BOURKE.**—Mr. Jeremiah Bourke, who for twenty-two years had been dispenser at the Bermondsey Infirmary, died on January 19. He had been away from duty since May 1916 owing to illness. The Guardians are to ask the Local Government Board to allow them to pay Mrs. Bourke 70*l*. from the superannuation fund.

**DOLBEAR.**—At Oxford, on February 3, as the result of an accident, Mr. William Tremlett Dolbear, chemist and druggist, eldest son of Mr. John Dolbear, Ph.C., 108 High Street, Oxford. Mr. W. T. Dolbear was an enthusiastic motor-cyclist and expert rider, and on Friday afternoon of last week, while motor-cycling, collided at the top of Hinksey Hill, at the Abingdon corner, with a motor 'bus. He was thrown with great force against the 'bus, and, sustaining shocking injuries to the head, was taken to Oxford, and died at the Base Hospital there on Saturday morning. Mr. Dolbear would have been thirty years of age this week. He was educated at Lord Williams' Grammar School, Thame, and passed the Minor examination in January 1911, and, after experience at Leamington and Aylesbury, became a junior partner in the business of Dolbear & Goodall, chemists, Oxford. Widespread sympathy is extended to his father, who is Vice-Chairman of the Oxford Board of Guardians.

**LANGTON.**—At Kew, Victoria, on December 17, 1916, Mr. Rivers Langton, formerly of London, England. Mr. Langton was at one time very well known in Great Britain, being a partner in the firm of Langton, Edden, Hicks & Clark, and in travelling for his firm he left impressions that endeared him to many. In 1880 he went out to Melbourne as representative of several British firms, and became as popular with Australian pharmacists as he was at home. In 1897 he confined his work to representation of Davy,



Hicks & Co. and Arthur Hill & Co.; when these businesses were united and ultimately joined in The British Drug Houses, Ltd., he continued his work, retiring on a pension in 1915. Mr. Rivers Langton had been an active man in the drug-trade for sixty years.

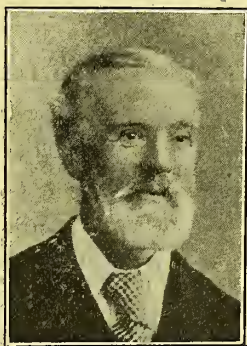
**MACKIE.**—At 157 Dalkeith Road, Edinburgh, on February 4, Mr. George Mackie, chemist and druggist, 31 Minto Street, eldest son of late Geo. Mackie, Fyvie, Aberdeenshire.

**MITCHELL.**—At Canterbury on January 27, Mr. Andrew Mitchell, chemist and druggist, for some years in business at 66 Wide Bargate, Boston, aged sixty-three. Mr. Mitchell succeeded to the business of Messrs. Gilliatt, for whom he had previously acted as manager. He leaves two sons, one of whom has been for some time at the Front.

**PARRY.**—At 14 High Street, Llanerchymedd, Anglesey, on January 24, Mr. John Alwyn Parry, chemist and druggist, aged fifty.

**PUGH.**—At Gorwydd House, Penbualt, Brecon, on January 24, Mr. Hugh Pugh, chemist and druggist, aged ninety-three.

**SHEPHEARD.**—Recently, at Bournemouth, Mr. Thomas Shephard, chemist and druggist, aged eighty-seven. The



MR. T. SHEPHEARD.

late Mr. Shephard was for many years a partner in the firm of Davies & Shephard, the oldest-established drug-business in Chester, the history of which was given in our issue of July 25, 1914, on the occasion of the visit of the British Pharmaceutical Conference to Chester. The late Mr. Shephard became a partner in the firm in 1855, and on the death of Mr. Davies the ownership of the business devolved on Mr. Shephard, who, in 1893, took into partnership his son, Mr. W. F. J. Shephard, Ph.C., and himself retired in 1896. Mr. Thomas Shephard was a pioneer in microscopy, and in the early days possessed one of the few microscopes to be found in the city. When the cholera epidemic swept through the district it fell to his lot to prepare chlorine-water, then used in large quantities as a prophylactic and remedy for the dread disease. Armed with his microscope, he examined milk for bacteria, for pus, and for blood. He was a friend of Charles Kingsley, and was one of those who assisted Mr. Kingsley in founding the Chester Society of Natural Science, an organisation of which Mr. Shephard was President in 1897-98, and Kingsley Memorial Medallist in 1888.

**STEWART.**—At 4 Elm Terrace, Beresford Road, Tottenham, London, N., on January 28, Mr. Gordon Orr Stewart, chemist and druggist, aged thirty-nine.

**TOY.**—At 484 Birchfield Road, Perry Barr, Birmingham, on January 22, Mr. George Bentley Toy, chemist and druggist, aged seventy-one.

#### Died on Service.

**BOWNAS.**—Private Fredk. Bownas, of the Argyll and Sutherland Highlanders, formerly with Wilson & Kitchin, chemists and druggists, of Whitehaven, has died of wounds received in action.

**SUGDEN.**—Private Robert Sugden, of the Durham Light Infantry, who has fallen in action, was formerly an assistant with Mr. W. H. Snowdon, chemist and druggist, of Spennymoor.

## Personalities.

**MR. LUKE FRANCIS FINN**, of Burroughs Wellcome & Co.'s shipping and transport department, having completed twenty-one years' service with the firm, has been presented with a silver semi-hunter watch bearing an appropriate inscription.

**MR. H. B. BILLINGTON**, dispensing chemist, 125 Sheffield Road, Barnsley, was on February 1 installed as W.M. of the "Friendly Lodge," 1513, at the Masonic Hall, East Gate, Barnsley. Among the visitors were Bros. Percy Carr and J. T. Appleton, pharmacists, of Sheffield.

## Society of Chemical Industry.

A MEETING of the London Section was held at Burlington House, Piccadilly, W., on February 5, Mr. Arthur R. Ling in the chair. The papers read dealt with the question of fertilisers for use in agriculture. The first, which was read by the author, Dr. E. J. Russell, of the Rothamsted Experimental Station, was entitled "Artificial Fertilisers: Their Present Use and Future Prospects," and was an interesting *résumé* of the uses of the various soil-fertilisers. The lecturer divided fertilisers into (1) nitrogenous, (2) phosphatic, (3) potassic, and (4) organic substances. Each has special uses—superphosphates, for example, being employed for root-crops, and ammonium sulphate being of particular value for cane-sugar crops. Nitrogenous fertilisers are popular because they are quick in action; there are, however, certain disadvantages attached to them. One of these is that sodium nitrate leaves sodium carbonate in the soil. Cyanamide has the disadvantage that in use it is polymerised to diacyanodiamide, which is toxic. There is a great increase possible in the amount of fertilisers made and used in the United Kingdom, and Dr. Russell expressed the hope that the large supply of cheap sulphuric acid which will be available after the war will be used for the purpose of making artificial manures for increasing the fertility of the soil in various parts of the Empire.

The next paper, by Professor Gilchrist, M.Sc., and Professor Louis, D.Sc., was on "Basic Slag as Affecting Agricultural Development." Steel is manufactured by two processes, the Bessemer and the open-hearth methods, these producing phosphatic slags which are used as fertilisers. The citric-acid test for these slags is specially favourable to Thomas slag (that produced by the Bessemer process). This test is empirical, but has placed the open-hearth slag under a ban. The authors show, however, that if this slag is powdered sufficiently fine, the phosphate it contains is available for the soil. As large quantities of basic slag are produced in this country, but not at present employed as fertilisers, this would supply to a large extent the pressing needs of agriculture. A discussion followed.

## Chemical Society.

THE Society met at Burlington House, Piccadilly, W., on February 1. Dr. Alex. Scott, F.R.S., who presided, spoke of how the world had been thrilled by the heroic death of Mr. Angell in the recent explosion. Mr. Angell, he said, had taken a keen interest in original research, and had communicated several papers to the Society. Dr. Scott added that he had written to Mrs. Angell conveying his sympathy and that of the Society. A paper on

#### CHROMIUM PHOSPHATE,

by A. F. Joseph and W. N. Rae, was read by Professor Joseph. He stated that very little is found about chromium phosphate in text-books. It is generally known that on treating a solution of chrome alum with sodium phosphate in the cold a violet precipitate is obtained, while in hot solution the resulting compound is green. Several hydrates of chromium phosphate have been mentioned, and to these various formulæ have been ascribed more or less correctly. The present paper was prepared about two years ago, and dealt with the composition of the hydrates obtained under stated conditions. The violet phosphate obtained in the cold is amorphous, but on standing in contact with the solution the phosphate gradually becomes crystalline, and more gradually changes to green. This effect is produced by the residual chrome alum in solution. The violet crystals have the composition  $\text{CrPO}_4 \cdot 6\text{H}_2\text{O}$ , and, on boiling with water, green crystals of a tetrahydrate are produced. The dehydration can be carried still further by boiling with acetic anhydride, when  $\text{CrPO}_4 \cdot 2\text{H}_2\text{O}$  is obtained. These were shown to be true hydrates by means of curves in which time was plotted against loss of water. These curves were "stepped," as is usual in the case of the dehydration of hydrates. Professor Joseph quoted several of his analyses of these compounds, indicating the methods employed in the determinations and pointing out many of the difficulties encountered. Several specimens were handed round for inspection. Some of the hydrates are very refractory towards acids and alkalis, the latter usually giving rise to basic compounds. A short discussion followed, in which Dr. Scott, Dr. Phillips, and others took part. A paper entitled

#### EVIDENCE FOR THE EXISTENCE IN MALT OF AN ENZYME

#### HYDROLYSING THE FURFUROYDE OF BARLEY,

by J. L. Baker and H. F. E. Hulton, was read by Mr. Hulton, who explained that "Furfuroyde" means those



substances which yield furfural on distillation with hydrochloric acid. Text-books say that pentoses do not occur in nature, but Davies has shown that small amounts do exist. The amount of furfuroyde material in barley is between 3 and 5 per cent. Brewers' grains contain 17 to 20 per cent., the rootlets 9.1 per cent., and the embryo 4.7 per cent. The authors added other particulars of special interest to brewing chemists regarding the properties of the material, especially showing that green malt contains some enzyme capable of hydrolysing barley furfuroydes.

## Royal Institution.

THE subject of the Friday evening's discourse at the Royal Institution on February 2 was "Recent Physiology and the War," the lecturer being Professor C. S. Sherrington. The war, said the lecturer, has not stopped the study of physiology, but it has somewhat turned aside its course; it has taken physiologists out of the laboratory and brought them into the street. Instead of taking observations in the laboratory they could take them in the munition-factory, where everything is carried on under the best conditions, including the feeding of the workers, and also because restriction of individual output is for the moment in abeyance. From a curve of the work turned out in the course of a ten hours' day, it was proved that the last hour of the five-hour period both before the midday meal and before leaving off at night, shows an access of work. He gave two examples showing the effect of reducing the hours of work. In one, where the hours were reduced from sixty-six to fifty-six per week, the total weekly output increased, the number of articles turned out going up from 6,150 to 6,759. In greater detail he showed how 200 women, whose work was turning aluminium fuse-bodies, and who worked ten hours a day, including Sunday, with no indication of real fatigue, when put on shorter hours, with a reduction of 25 per cent. of time and latterly no work on Sunday, actually did more work than before. The question of the influence of alcohol on work has recently been carefully studied. One hour after the subjects of experiment had received, unknown to themselves, a quantity of absolute alcohol equal to  $2\frac{1}{2}$  oz. of whisky, it was found that the simple reflex movement known as the knee-jerk showed that as the effects of the alcohol, the speed of the response is delayed by 9.6 per cent., and the amplitude of movement is reduced by 48 per cent. In the protective closure of the eyelids the alcohol reacted as in the knee-jerk, the speed being impaired by 6 per cent. and the protective movement by 26 per cent. In an experiment where the fingers were moved as quickly as possible, it was found that the speed was reduced by 8.9 per cent. It might be said that these results were obtained by a general sedative effect of alcohol on all the organs of the body, but this is not so, for it is found that in every case the pulse-rate has increased. Alcohol is beneficial for some things, but one could not call it a food. When sugar goes into the furnace it acts as a food and does not play any tricks, but when alcohol goes into the furnace it immediately begins to monkey with the machinery. The subject of hæmorrhage from wounds and the reduction of arterial pressure were next touched upon. It was due to the pressure from the full and elastic arteries that the circulation of blood through the capillaries was possible. When bleeding takes place the volume of blood is reduced, and the arteries not being distended, the head of pressure is lowered. This may be restored by transfusion of blood, but this cannot be done with impunity owing to the possibility of the formation of a clot, which would be dangerous. Moreover, blood must be of the same species; the blood from a rabbit would kill a cat. Water will not do, because by osmosis it destroys the red blood-corpuscles. Normal saline solution is used in the laboratory, but it only partially restores the head of pressure, because, in short, blood is thicker than water, and normal saline lacks viscosity. A harmless solution of starch may be introduced, but the effect is not permanent, while gelatin also has been employed. The effect of the use of antitetanic serum after war-wounds was next demonstrated. Tetanus toxin is exceedingly fatal,  $\frac{1}{2}$  milligram being fatal to a man weighing 70 kilos. The effect of this can be prevented by conferring passive immunity by the injection of serum. In September 1914 the number of tetanus cases amongst the wounded was 16 per 1,000, and in October the number had risen to 32 per 1,000. In November the figure dropped to fewer than two, and in January 1915 to none at all, and ever since it had fluctuated from something like 1 to 4 or 5 per 1,000 cases of wounded. This marked fall was coincident with an order to inject preventive doses of antitetanic serum into every soldier who had been wounded.

## Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal, January 17, 1917.)

- "SUROL"; for a photographic developer (1). By Watson & Sons (Electro-Medical), Ltd., 196 Great Portland Street, W. 375,376.
- Oval picture of mother and child: for medicinal chemicals (3). By W. Browning & Co., Park Street, N.W. 375,795.
- "CRANE CORN CURE," with picture of crane removing corn from foot with a crane; for a corn-cure (3). By Anthony & Co., 39 St. Mary Street, Cardiff. 375,455.
- "SALVIS"; for a mineral-spring salt (3). By C. A. Critchley & Co., 10 King William Street, Blackburn. 375,764.
- "OLIMEX"; for perfumery, etc. (48). By L. J. Kendall. 6 Coney Street, York. 375,719.
- "CREMALBA"; for perfumery, etc. (48). By Wright, Layman & Umney, Ltd., Southwark Street, S.E. 376,146.

(From "The Trade-marks Journal," January 21, 1917.)

- "CARBOZAL"; for pharmaceutical preparations (3). By Society of Chemical Industry in Basle, 141-227 Klybeckstrasse, Basle. 374,345.
- "DIACURE"; for a medicine (3). By F. G. Boden, 3 Staley Road, Mossley, Lancs. 375,852.
- "OCULYSOL"; for medicated eye-lotion (3). By M. B. Bloom, 19 Golders Green Crescent, N.W. 376,065.
- "MEDICURA"; for soap (3). By Chas. Midgley, Ltd., 4 Exchange Street Manchester. 376,082.
- "EBOM"; for meat extract (42). By A. Wilkinson, 2 and 3 Wharf Road, Pancras Road, N.W. 375,469.
- "KIBLETS"; for animal food (42). By the British Oil and Cake Mills, Ltd., 29 Great St. Helens, E.C. 375,865.
- "TENIBAC"; for food-tablets (42). By D. W. Sly & Co., Ltd. 10 Bush Lane, E.C. 376,135.
- "NILTORA"; for perfumery, etc. (48). By W. S. Hankins. 44 Baker Street, W. 375,446.
- "SULPHOLIA"; for a toilet-preparation (48). By O. R. Windemer, 4 Royal Parade, Harrogate. 375,854.
- "LAVOCROBY"; for a toilet-preparation (48). By T. W. Crosby, 35 Montpellier Parade, Harrogate. 375,855.
- "REGECUTA"; for perfumery, etc. (48). By Regesan, Ltd., Trent Street, Nottingham. 375,936. (Associated.)
- "SNOWFIRE"; for perfumery, etc. (48). By F. W. Hampshire & Co., Ltd., Full Street, Derby. 375,970. (Associated.)

(From "The Trade-marks Journal," January 31, 1917.)

- "JUVENIA"; for chemicals (1 and 2), and for goods (47). By F. S. Cleaver & Sons, Ltd., Gould Road, Twickenham. 376,119/120/121.
- "PARAQUIT"; for chemicals (2). By Lawson & Co. (Bristol), Ltd., Straight Street, St. Philips, Bristol. 374,176.
- Picture of baker holding globe bearing words "BAKER'S BOTTLED VET" ("Baker's" disclaimed); for veterinary chemicals (2). By R. Hough & Co., 36 Cannon Street, Birmingham. 375,807. (Associated.)
- "CHRISTOLAX"; for medicinal chemicals (3). By A. Wander, Ltd., 45 Cowcross Street, E.C. 375,774.
- "ALVIRAY" and "ULVIRAY"; for scientific instruments, etc. (3). By The Adrian Grey Optical Institute, Ltd., 29 and 30 High Holborn, W.C. 375,519/20. (Associated.)
- "CLIMAX"; for all goods (11). By E. Gray & Co., Ltd., Cul de Sac Road, East Molesey. 375,500.
- "LUC"; for medical syringes (11). By Laboratory Utilities Co., Ltd., 17 Sackville Street, Piccadilly, W. 376,253.
- Device of St. Andrew; for all goods (40). By The North British Rubber Co., Ltd., Fountainbridge, Edinburgh. 376,073.

## Information Department.

### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

- |  |   |
|--|---|
| 205/32. "Key" brand PM/G ceresine wax.       | 207/73. Sayer's (or Sayre's) plaster.         |
| 205/35. "Tezemac" cream-of-tartar substitute | 208/8. Kitin.                                 |
| 205/10. Parkinson's syringe.                 | 208/9. "Unity Fleete" sanitary vest.          |
| 206/73. "Richardson atomiser."               | 210/30. Dr. Melville Davidson's "D" solution. |
| 208/40. Cyanocuprol.                         | 210/29. "Lugol" tablets.                      |
| 208/2. Veldt cream.                          |   |



## Observations and Reflections.

By Xrayser II.

### The Omission of Storax

from tr. benzoin. co. need not materially affect its value, supposing it to have any, as a vulnerary, since the loss might easily be made up, as you suggest, by increasing the proportion of other ingredients. Our first official bals. traumaticum, that of the Edinburgh Pharmacopœia of 1735, contained no storax, its formula being as follows: Benzoin 2 oz., bals Peru. 1 oz., olibanum, aloes soc., and myrrh, of each  $\frac{1}{2}$  oz., S.V.R. 2 lb. The olibanum and myrrh were afterwards dropped, but the preparation does not seem to have suffered. Dr. Brookes, in his Dispensatory of 1773, speaks enthusiastically of it, though he suggests the substitution of bals. tolu. for bals. Peru., on account of the difficulty of getting the latter pure. The same objection might have been made against the storax of his day, both the cane and the liquid variety being often grossly impure. The London College has always retained both storax and bals. tolu. in its tincture, but the friar's balsam of commerce, so dear to the amateur vet., used rarely to contain storax. Bals. traumaticum first appeared in the P.L. in 1746.

### Mr. Hines's Address

to the Harrogate Association was the most damaging indictment ever brought, even by this vigorous reformer, against the Pharmaceutical Society and Council. Not that it contained anything new; everything that he said has been urged before in these columns (to go no further), and Mr. Hines himself has repeatedly made the same charges. But there is a cumulative force in this address which adds weight to every charge, and by directing the whole volume of his criticism to the one point of the proved impossibility of adapting the Society, as at present constituted, to business purposes, Mr. Hines demonstrated with convincing effect the need of some other organisation for the protection of our commercial interests. This was no academic criticism, but, as declared in the title of the address,

### "Practical Politics"

of the most direct and urgent importance. Mr. Hines knows something of the working of the Associations Conference and the precious Executive Committee; the Council he criticises, unfortunately, entirely from the outside. Were he a member of it he might apply to it with equal truth what he says of the Conference and the Committee the Council dominates. He would find it, too, virtually controlled by a permanent official clique, a cabinet within a cabinet, with its own preconceived policy, and able by mere persistence and unity of purpose to carry its policy into effect. Disraeli was once asked how it was that he always got his own way on Committees. "Because," he replied, "I am the only one who goes to them knowing exactly what I want, and determined to have it." There is the secret; no individual members of the Council have any chance of effective criticism, to say nothing of effective action, against a solid group of determined officials. By the way, Mr. Hines's reference to the Secretary's plea against being overworked is rather a curious commentary on the scheme for adding to his duties that of Parliamentary Secretary, but that is another story.

### A Prospect of Increased Trade with Russia

has been opened to us by the war, and the absence of German competition for some time to come should afford an opportunity of establishing it on a permanent basis. We are warned that this can only be done by accommodating ourselves to Russian customs and methods, and the abandonment of some of our time-honoured prejudices. It may be useful to recall the first attempts at commercial intercourse between the two countries by way of the North, in the middle of the sixteenth century. The story may be said to begin with the expedition of Sir Hugh Willoughby and Richard Chancellor in the year 1553, the ostensible object

of which was to discover a north-east passage to China, its more immediate result being the opening of a trade with Russia. The difficulties were enormous. Willoughby was cast away off the coast of Norway, and with his ship's company perished of starvation, but Chancellor reached a port in the White Sea, and, leaving his ship there, proceeded by sledge to Moscow. He was well received by Ivan the Terrible (the first Tsar), and other expeditions followed in 1555, 1556, and 1557, etc., in the second of which Chancellor himself was drowned. In the fourth voyage Anthony Jenkinson commanded one of the ships. The voyage from London to the mouth of the Dvina occupied two months; he travelled thence up the river to Vologda by boat, and on to Moscow by sledge. Eventually he extended his travels to Bokhara, and it is mainly to him, his companions, and immediate successors that our first real knowledge of Russia is due. The full story of these trading adventures on and around the Caspian Sea is a fascinating one, and may be read in Hakluyt. The chief "setter-forth" in them, it should be added, was Sebastian Cabot.

## Trade Notes.

BOURNVILLE COCOA and Cadbury's cocoa in  $\frac{5}{8}$ l. packets are being advertised in the daily Press. Chemists should see that their stock is ready to meet the demand.

SANGERS' MONTHLY LIST for February deals with alterations in prices of proprietary articles, and enumerates now lines in sundries and toilet-articles. Cologne-and-cucumber lotion is introduced as an improvement on glycerin and a means of satisfying customers who cannot be supplied with glycerin.

"CHRISTY'S MONTHLY" for February states that 1917 has opened splendidly from a trade point of view. The expression "tho will to win" is applied to the chemists' business, and success, it is hinted, can come by selling the specialities of Thos. Christy & Co., some of which are enumerated in the circular.

AMERICAN ESSENTIAL OILS.—Magnus, Maybee & Reynard, Incorporated, 257 Pearl Street, New York, send us a copy of their market report and wholesale price-list for January-February 1917, which contains a full list of the essential oils, chemicals, etc., for which they are well placed. The prices are, of course, approximate, as many items fluctuate daily.

ASPIRIN CRYSTALS.—The Chemical Products of Canada, Ltd., whose agent in London is Mr. Frank I. Hibbert, Colonial House, 17 Tooley Street, S.E., are producing acetylsalicylic acid in crystalline form, a variety which is preferred by Russian and other buyers. The sample we have seen is in glistening crystals, and has a melting-point of 135°, this being the higher limit mentioned in the British Pharmacopœia.

THE "STANDARD" RETAIL PRICE-LIST of war-affected drugs, which is published by Mr. Charles Philip, pharmacist, 23 High Street, Herne Bay, has just been issued in a revised form for the first quarter. It is priced at 1s. (post free), and is constructed on the same principles as are used in Mr. Philip's pricing guides. The prices given of tallow products are those ruling on January 18. May, Roberts & Co. have supplied the prices for bottles used in the list.

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N., have, since the war began, greatly extended their premises, especially for the purpose of adding to their chemical production. A description of the new works, with sketches, was given in our issue of July 29, 1916. Consequent upon this extension, and with a view to further development of the chemical side of the business, the Treasury has recently authorised the company to increase its capital by 50,000l., making the total a quarter of a million. The new capital has all been subscribed for by the existing shareholders (the directors and a few of their relatives and friends), as the company is a private one.

SEYCHELLES ESSENTIAL OILS.—The value of essential oils exported from Seychelles during 1915 (the latest figures available) was Rs. 42,115, against Rs. 16,482 in 1913. The value of the export of essential oils has increased sevenfold in the past three years; the profits are not large, but it results in the employment of many persons. The number of stills at work and in course of erection during 1915 was twelve.





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- "Sanitas Fluid" No. 2 (Crude).  
Non-poisonous, disinfectant and deodorant.
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Homogeneous Phenoloid Disinfectant; 18/20 co-efficient.
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Emulsified Phenoloid Disinfectant; 18/20 co-efficient.
- "Sanitas Sypol" (Improved Lysol).
- "Sanitas Sulphur Candles."
- "Sanitas Formic Sulphugators."
- "Sanitas Formitas Outfits."
- "Sanitas Formigators."
- "Sanitas Drain Testers."
- "Sanitas Polishes."
- "Sanitas Distemper," for walls.
- Peroxide of Hydrogen (Kingzett's Preserved).

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CHEMISTS' DICTIONARY OF SYNONYMS. 2/6, by Post 2/9.

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"The Laboratory in the Waistcoat Pocket."

Wholesale Terms on application to the Sole Proprietors:

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## Editorial Articles.

### Drugs and the "Blockade."

ONE of the most notable facts about our war-time conditions is the manner in which the importation of crude drugs into this country has been maintained. Produce from Allied and neutral countries has been received in practically normal quantities, although there are some notable exceptions due to the closing of the Central European markets. It may now be asked what effect, if any, the new German piracy that has been intimated, in conjunction with the fact that the United States has broken off diplomatic relations with Germany, will have on our drug and chemical supplies. At the time of writing, and pending the development of the crisis, it is yet too early to realise the full effect of the "sink everything" policy, but it is very reassuring to know that at the present time ample supplies of many leading staple drugs are in stock. We cannot do better than give a few of the first-hand figures as they stood in London on January 31, together with the corresponding figures for January 1916:

<i>Stocks.</i>	1916 pkgs.	1917. pkgs.
Aloes, all kinds ...	1,082	1,220
Arrowroot ...	9,492	7,663
Balsams ...	319	283
Cascara sagrada ...	106	53
Cinchona ...	4,063	5,315
Quinine (oz.) ...	1,441,488	1,192,672
Camphor ...	1,987	740
Calumba ...	915	217
Gum acacia ...	5,968	10,926
Benzoin ...	1,808	1,167
Gamboge ...	25	50
Myrrh ...	324	369
Ipecacuanha ...	181	664
Jalap ...	218	275
Nux vomica ...	714	3,239
Rhubarb, Chinese ...	1,369	997
Sarsaparilla ...	177	221
Senna ...	1,654	4,494
Shellac ...	94,424	49,280

It will be seen that we have a very fair supply of the drugs that are necessary for our well-being. True, the stock of cascara sagrada is low, and we shall undoubtedly see a further sharp advance in the drug; on the other hand, we have a plentiful supply of cathartics, such as aloes, jalap, rhubarb, and senna; the stock of the last-named drug (4,494 packages) is the highest for at least the past six years. We give these drugs prominence because they are amongst the articles that our enemies are short of; but the latter are also destitute of many other drugs, and some that do not originate in the British Empire—*e.g.*, ipecacuanha and senega, two winter drugs of world-wide consumption. Almost 700 packages of ipecacuanha are in stock—sufficient for, say, six months' supply for the British Empire and our Allies. It is wonderful how our trade in ipecacuanha has expanded since the war, the deliveries from the drug warehouses being practically a thousand packages in each of the years 1915 and 1916, and one has to go back several years before the war to find similar figures. Senega stocks are not recorded in London, but the supplies are not bad. Our stock of quinine is quite ample, as Britain is only a small consumer, compared with our Colonies and Allies. Cinchona, too, has arrived in comparatively large quantities, and the stock is much larger



than at this time last year. We should not be surprised, however, to see an advance in quinine later, on its merits, in spite of the increased production in Holland and Java. Benzoin and myrrh are other drugs of which very fair quantities are in stock, and among industrial produce, like acacia gums, copal, and damar, the stocks are excessive, and reach record figures; on the other hand, the stocks of kauri and shellac are small and much below the average. As to the stocks of other drugs requisite in maintaining the good health of the people, but in regard to which no official statistics are published, there is no reason for fear. We are assured, for example, that the supplies of opium and its alkaloids are quite sufficient for British Empire requirements. Many roots, barks, herbs, etc., which in pre-war times were obtained from Central Europe have long been out of stock, but we have got along without them and are increasing our home production. Belladonna-root has, however, been extremely scarce, and the recent arrivals from India have been very welcome. The sale of Norwegian cod-liver oil has never been less in this country than it has been this winter, but Newfoundland oil has taken its place to some extent. Stocks of Norwegian oil must be very low, especially as Norway exported practically nothing to England last year, Germany taking the bulk. The 1917 Lofoten fishing is just opening, but what we shall get from that source again this season is doubtful, as the 1916 conditions still exist. As regards chemicals there is no means of ascertaining even approximately what the existing stocks are, but we are now much less dependent on neutrals and Allies, considerable progress having been made in the home manufacture of synthetic chemicals like the salicylates, aspirin, salol, acetanilide, and others that might be named. Temporarily, at least, the "blockade" may put an end to the American competition in these and other chemicals. Some of the industrial chemicals which we obtain from the United States are likely to appreciate in value, but there has been no substantial advance so far; holders prefer, meanwhile, to "wait and see," and ask a little more for their actual spot stocks, especially as several American vessels on the way, and carrying chemicals, have temporarily returned to port. In the meantime we have to announce a further advance in arsenic, sulphur, turpentine, shellac, and linseed oil, and to a less extent there are rises in formaldehyde and sodium hyposulphite. On the other hand, a welcome and substantial reduction in all iodine compounds is announced this week. This was not unexpected, in view of the inflated price which the Iodine Convention has charged makers of iodides for the crude material.

### Glycerin.

It is nearly twelve months since we were able to inform the trade that the British Government, through a Department of the Ministry of Munitions, had taken control of the production of glycerin, but allowed its distribution by manufacturers, and this has been done in such a way that no real scarcity of the product for medicinal purposes has actually been experienced. It is very much to the credit of the Ministry, the manufacturers, wholesale druggists, and dispensing chemists that nothing in the way of an Order in Council or a formal regulation has been necessary to enforce the Ministry's desire, which is simply to ensure that there shall be ample supplies of glycerin for the production of munitions. The National Insurance Commission has during the past ten days issued to panel practitioners a memorandum in regard to the prescription of glycerin or preparations containing it. The memorandum is suggestive and informative, showing how doctors can replace glycerin with other materials, even in cases where it has been used as a laxative or as an ingredient in lotions and other preparations. The memorandum also gives hints in regard to syrups and other preparations containing sugar, it being desired to curtail their use as far as possible to essential purposes. The glycerin position is well put by The British Drug Houses in the following statement:

"The manufacture of chemically pure glycerin has been stopped. Existing stocks are to be reserved for the manufacture of pre-

parations official in the British Pharmacopoeia. Such stocks, however, are not sufficient to permit of even the B.P. preparations being supplied to the full extent of previous requirements. We are giving preference to those preparations in which the proportion of glycerin is small (e.g., tinct. sennæ co.) or in which the use of glycerin is unavoidable (e.g., glycerin suppositories) over those cases where the quantity is great (e.g., glycerin boracis) or where the glycerin is not essential (e.g., tinct. card. co.).

The position at present is that we are not able to supply glycerin itself at all; and, further, have discontinued the manufacture of glycerin boracis, glycerinated 'tinctures' (so-called 'aqueous tinctures'), glycerinated fluid extracts, and glycerin-containing preparations of the B.P.C. and other unofficial formularies. Many such unofficial glycerin-containing preparations we are now making according to modified formulae, the glycerin being omitted but the proportion of all the essential ingredients remaining unchanged. Orders for such preparations as we have had to discontinue or modify will be supplied according to the original formulae so long as existing stocks permit.

We understand that the Ministry may still permit B.P. glycerin to be made if actually required, but it is believed that considerable stocks are held by retailers, and such stocks may be commandeered. It will be observed that the Ministry has narrowed the preparations for which glycerin is to be used by striking out the "British Pharmaceutical Codex," which was the only unofficial book mentioned in the first instance, although better-known and more-used books, such as Squire's "Companion," were ignored. We feel sure that chemists and druggists will continue their co-operation with the Department.

### The Sweetmeats Order.

#### Chemists' Cachous and Lozenges Excluded.

THE Sugar (Confectionery) Order made by the Food Controller and published in THE CHEMIST AND DRUGGIST, January 20, p. 33, contained the following provision as to the prices for chocolates and sweetmeats:

"Except under the authority of the Food Controller, no person shall, after the 1st day of February, 1917, manufacture or supply or offer to supply from goods manufactured by him, any chocolate for sale by retail in the United Kingdom at a price exceeding the rate of 3d. per ounce, or any other sweetmeats for sale by retail in the United Kingdom at a price exceeding the rate of 2d. per ounce, and no person shall after the 1st day of May, 1917, sell or buy or offer to sell or buy by retail any chocolate or other sweetmeat at a price exceeding the rate specified in each case."

Immediately the Order was issued, great uncertainty arose among manufacturers of lozenges and other confectionery sold by chemists and druggists, and supplied to them at prices which do not permit them being retailed at 2d. per oz. Consequent upon communications that we received from manufacturers and others, we interviewed the Ministry of Food, as explained in the Editorial "What is a Sweetmeat?" in our Winter Issue, p. 101, and have now pleasure in printing a letter which we have received from the Ministry intimating that cachous and lozenges such as were sold by chemists last year are not covered by the Order. The letter is as follows:

Ministry of Food,

Grosvenor House, W.,

2nd February, 1916.

1915/17.

Sir,—I am to refer to enquiries made by you in regard to the position of cachous and medicated lozenges under the Sugar (Confectionery) Order, 1917.

I am now to say that in the view of this Department cachous and lozenges of a class manufactured for and sold by chemists prior to or during the year 1916 are not sweetmeats within the meaning of the Order.

I am, Sir,

Your obedient servant,

S. C. TALLENTS.

The Editor, "The Chemist and Druggist."

The terms of this letter are sufficiently wide to assure all retail chemists and manufacturers and wholesalers that the Order does not interfere with them in respect to the sale of the articles mentioned. What was done in 1916 or before can be proved by invoice or in some of the methods that we explain, and there should be no interference with established business except in the few cases where chemists have succumbed to the American plan of making chocolates a side-line; these are certainly



within the meaning of the Order, and can only be sold at not more than 3d. per oz. Amongst the articles which the Ministry now excludes from the Order, and in consequence recognises that the maximum price of 2d. per oz. does not apply, are the sixteen lozenges of the British Pharmacopœia, and in the same category we place lozenges for which recipes are given in "Pharmaceutical Formulas," p. 490 to p. 502. These include the following:

**BOILINGS:** Acid drops, cough-drops, bismuth tablet, digestive or live-long candy, heartburn-tablet, liquorice drops.

**OFFICIAL AND OTHER LOZENGES:** Aperient, anodyne, bronchial, Brompton Hospital, cayenne, chlorodyne, coltsfoot-cough, cough, Skelton's pulmonary, fit, ginger, heartburn, laxative, linseed, liquorice and chlorodyne, magnesia, sore-throat, worm.

**FRUIT LOZENGES,** such as those of the Throat Hospital Pharmacopœia.

**JUJUBES AND PASTILLES,** including glyco-gelatin preparations: Several named.

**CACHOUS:** Several formulas given for cachoux aromatizo and lozenge cachous.

Good evidence that articles have been manufactured for and sold by chemists is the fact that formulæ for them have been given in the *C. & D. Diary*, Squire's "Companion to the British Pharmacopœia," Martindale's "Extra Pharmacopœia," the "British Pharmaceutical Codex," or any other recognised book of reference. In the same category we may also place the price-lists of manufacturers and wholesalers published before 1917; also cachous and lozenges which have been advertised to chemists in the *C. & D.* and the *C. & D. Diary*. The exclusion will also cover compressed tablets in which chocolate and sugar are the basis: these have become, within recent years, a quite popular type of medicinal lozenges.

### Index to Volume LXXXVIII.

As stated in previous issues, we shall supply the Title-page and Index for the volume of *THE CHEMIST AND DRUGGIST* for 1916 to all subscribers who write to us for it. We suggest that they should ask for this by postcard addressed to *THE CHEMIST AND DRUGGIST*, 42 Cannon Street, London, E.C.

### Earlier Closing for Press.

OWING to the shortage of labour and other conditions affecting the printing trade, the Publisher asks us to advise our advertising friends that it will be necessary in future to put the advertising pages of *THE CHEMIST AND DRUGGIST* to press on Tuesday instead of on Thursday morning. Advertisers will assist us greatly, therefore, by sending in their copy so that it reaches 42 Cannon Street on Saturday morning previous to the date of issue. This will enable our printers to prepare and submit proofs should these be required.

### Trade in January.

THE Board of Trade Returns for the first month of the year were issued on Wednesday, and show that our imports were valued at 90,565,311l., compared with 74,935,741l. in January 1916, and the exports were valued at 46,860,542l., compared with 36,157,167l. in January 1916. With the exports of foreign and colonial produce, amounting to 8,431,315l., the total of exports was 55,291,857l. Increased imports in the food class compared with last January amounted to 2,648,489l., and in the raw-materials class the imports were increased by 13,483,533l. There was a decrease of 471,777l. in imports of manufactured goods, and a decrease also in the miscellaneous class. The exports of home produce were 10,103,375l. more than in January 1916, this being due chiefly to increased values in raw materials, cotton, wool, and other fabrics, while chemicals, drugs, dyes and colours exported were valued at 2,345,684l., or 81,174l. more than January 1916. Amongst the foreign and colonial goods exported were 242,316l. worth of chemicals, drugs, dyes and colours, which represents a fall in value of 145,789l.

### Showcards

WHEN the Business Names Act was in the House of Lords we referred (*C. & D.*, November 25, 1916, p. 53) to some of the troubles that it might produce. After

that the House of Commons severely amended the Bill, and now business men in all departments of trade are beginning to feel how difficult it will be to conform to it. There is at present considerable trouble in regard to Section 18, which refers to the publication of true names, etc., the first part of it being as follows:

"After the expiration of three months from the passing of this Act every individual and firm required by this Act to be registered shall, in all trade catalogues, trade circulars, showcards, and business letters on or in which the business name appears, and which are issued or sent by the individual or firm to any person in any part of His Majesty's dominions, have mentioned in legible characters:

- (a) in the case of an individual, his present Christian name or the initials thereof, and present surname, any former Christian name or surname, his nationality if not British, and if his nationality is not his nationality of origin his nationality of origin; and
- (b) in the case of a firm, the present Christian names or the initials thereof, and present surnames, any former Christian names and surnames, and the nationality if not British, and if the nationality is not the nationality of origin the nationality of origin of all the partners in the firm or, in the case of a corporation being a partner, the corporate name."

The present trouble is in regard to trade catalogues, trade circulars, showcards, and business letters. Section 22 states that:

"Showcards shall mean cards containing or exhibiting articles dealt with, or samples or representations thereof."

It is clear that a plain printed showcard without any illustrative representation of the article on it or any sample of the article is not included, but that such things as a card of soothers, a card referring to a tooth-brush and bearing a specimen of it or an illustration of it, will come in, and must bear the name of the registered firm or the individual in the manner set forth in (a) and (b). Some are of opinion that a label affixed to a box will constitute a showcard. So far as the drug-trade is concerned it seems perfectly clear by the wording of the Act that labels as used by chemists and druggists to describe the goods to which they are applied are not within the meaning of showcards, but it is not impossible that a label of some kind might be used for showcard purposes. The extremely unsatisfactory nature of the Act is revealed by Section 18. Suppose a firm, A. B. & Co., which is registered, send a showcard to Mr. D. C., an individual who also has to be registered, and Mr. D. C. uses it or gives it to a customer, has Mr. D. C.'s name also to be placed on the card?

IN THE DUTCH EAST INDIES there is an extreme scarcity of medicines, drugs, bottles, and utensils for sick-nursing. The pharmacists of Java have sent a telegram to the Minister of the Colonies, in which they urgently ask for help.

THE PREPAREDNESS LEAGUE OF AMERICAN DENTISTS purposes to prepare dental surgeons for Army service in time of need. Each member also agrees to prepare the mouth of at least one applicant to meet the requirements for enlistment.

TARIFF REVISION FOR 1918.—The Local Associations Executive of the Pharmaceutical Society has taken the first step in regard to revision of the present Tariff at the end of the financial year. The proposals involve assistance from all panel chemists in regard to the time spent in dispensing the various classes of preparations, as well as information on co-related subjects.

DEALING IN MORPHIA.—Woo Tsen-zung, manager of the Nanyang Dispensary, Shanghai, was, on December 7, at the Mixed Court, ordered to pay a fine of \$500 for selling over the counter to an unknown purchaser, for cash, 18,000 tablets made up according to a prescription of the defendant himself as an anti-opium remedy. The ingredients of the prescription, according to the Municipal Laboratory, were  $\frac{3}{4}$  oz. of morphia to  $\frac{1}{4}$  oz. of quinine and  $\frac{1}{4}$  dr. of strychnine, massed with organic matter consisting chiefly of starch and sugar.

RUSSIAN SALICYLATES.—At the new factory of the Russian Chemical Co., which was formed over a year ago by Professors Rephormatsky and Egeroff, salol and salicylates are being made in considerable quantities, so that the Red Cross Society is supplied with them, and a portion is being supplied to the Kieff Pharmaceutical Society, which distributes them among the pharmacists. At the beginning of 1917, it is hoped, the daily production of salicylic acid and its derivatives will be increased ten times. Naphthol, Glauber's salt, and chemically pure soda and ammonia for pharmaceutical purposes are being manufactured.



# Pharmaceutical Society of Great Britain.

## Council-meeting.

THE MONTHLY MEETING of the Council was held on February 7 at 16 Bloomsbury Square, London, W.C. The Councillors present were: Mr. E. White (President), Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. F. E. Bilson, A. S. Campkin, J. H. Cuff, W. L. Currie, J. W. Deakin, F. J. Gibson, R. L. Gifford, C. E. A. Goode, T. Guthrie, A. Hagon, J. F. Harrington, J. Keall, L. M. Parry, P. F. Rowsell, F. P. Sargeant, H. Skinner, and J. R. Young.

### THE LATE MR. SHEPHEARD.

The minutes of the previous meeting having been read, the PRESIDENT referred to the death of Mr. Thomas Shephard at Bournemouth, and formerly of Chester. His son, Mr. W. F. J. Shephard, is an examiner, as is also his son-in-law, Mr. W. F. Gulliver. The late Mr. Shephard was eighty-four at the time of his death. He had lived a very active life, and always took a great interest in the educational work of the Society. The sympathies of the Council are to be conveyed to the relatives.

### ELECTIONS AND RESTORATIONS.

Twenty members were elected and forty-four student associates. Fifty persons were restored to membership, and three persons had their names replaced on the Register of Chemists and Druggists. The Registrar further reported that he had registered fifty-three apprentices or students since the last meeting.

### RETIRING COUNCILLORS.

The Secretary reported that the following members of the Council retire in May next, pursuant to Statute: Messrs. Bilson, Cuff, Goode, Harrington, Harrison, Rowsell, and Young.

### THE REGISTRAR'S ANNUAL REPORT.

The Registrar then submitted his report for the year 1916, of which the chief features are embodied in the following abstract:

The subscribers to the Society are 782 life compounders, compared with 757 in 1915; 7,810 annual subscribers, against 7,555 in 1915; 503 student associates, against 539. The number of persons registered as apprentices or students was 412 [592 in 1915]; 284 persons passed the Minor, against 462 in 1915; while the successful Major candidates numbered 15, against 24 in 1915. The Register of Pharmaceutical Chemists contains 1,985 names [2,001 in 1915], and that of Chemists and Druggists 14,873 [14,798 in 1915], an increase of 75 names during 1916. The Register of Superintendents of Bodies Corporate contains 666 names [655 in 1915]. The section of the report dealing with the administration of the Pharmacy Acts shows that 853 [1,122 in 1915] cases of alleged infringement were investigated during 1916, and in 186 cases [300 in 1915] proceedings were instituted. It is added that 2,828 shops were inspected [754 in 1915] to ascertain whether a certificate of qualification was exhibited.

The PRESIDENT, commenting on the total number of members (8,592), said it is nearing the ten-thousand mark, and he some time ago jocularly promised to retire from the presidency when that is reached.

### CORRESPONDENCE.

The Privy Council sent a copy of the report of the Government Visitor on the examinations held by the Society in Edinburgh during 1916.

The Reconstruction Committee in connection with the demobilisation of the Army and Navy asked for information as to the probable position of pharmaceutical students who at the time of joining the Army were undergoing training for admission to the calling. This was referred to the School Committee.

The Oldham and Blackpool Societies wrote asking that the sale of glycerin be prohibited unless prescribed by a duly qualified medical practitioner.

Mr. A. A. White, Nairobi, wrote thanking the Society for assistance rendered in preventing the registration of unqualified persons as pharmacists in the Protectorate.

The Liverpool Chemists' Association suggested that the Society should publish in full the various Orders in Council made under the Defence of the Realm Act.

The Bradford Pharmacists' Association made suggestions regarding pharmaceutical examinations with a view of popularising the qualifying examination.

The North-East Lancashire Chemists' Association wrote in regard to the sugar-supply.

The PRESIDENT here mentioned that he had been elected an honorary member of the Liverpool Chemists' Association.

### FINANCE COMMITTEE.

The report of the Finance Committee was next read.

The receipts of the General Fund since the last meeting were 2,466*l.* 0*s.* 9*d.*, made up as follows: Penalties and costs, 85*l.* 12*s.* 5*d.*; "Journal," 38*l.* 18*s.* 7*d.*; B.P. Codex, 25*l.* 0*s.* 5*d.*; subscriptions, 1,684*l.* 14*s.* 6*d.*; registration-fees, 88*l.* 4*s.*; restoration-fees, 3*l.* 3*s.*; grant from the Board of Education, 279*l.*; school-fees, 33*l.* 13*s.* 6*d.*; ground-rents, 54*l.* 7*s.* 6*d.*; rent and insurance (15 Bloomsbury Square), 44*l.* 9*s.* 6*d.*; "Chemists' Annual," 128*l.* 17*s.* 4*d.*. After deducting the payments ordered at the last meeting there remained a balance of 665*l.* 9*s.* 1*d.*. The balances on the Benevolent Fund were: Current account, 196*l.* 16*s.* 3*d.*; donation account, 223*l.* 0*s.* 11*d.*; orphan fund, 131*l.* 2*s.* 8*d.*.

The TREASURER, in moving the adoption of the report, characterised the receipts as good compared with a year ago. He mentioned that the 2,000*l.* received for the Ransom Research Fellowship had been invested in 5 per cent. War Loan, the total amount so invested by the Society being 4,000*l.*

The report was adopted.

### BENEVOLENT FUND COMMITTEE.

Mr. BILSON moved the adoption of the report of this Committee, which recommended grants amounting to 76*l.* Mr. Bilson also read out a list of contributors during the month, these including a legacy of 100*l.* from the executors of A. W. Charge; "Script" Fund (per Mr. H. Skinner), eleven guineas; Ayrton, Saunders & Co., Ltd., 5*l.*; London Pharmaceutical Committee, 5*l.*; and Birkenhead and Wallasey Pharmacists' Association, 4*l.* 13*s.* Payments were authorised to the London and Wanstead Orphan Asylums for the support of three orphans. In regard to the establishment of a bureau for assisting demobilised pharmacists it was suggested that the matter be deferred for a month, in the meantime the Office to assist pharmacists in the usual manner.

Messrs. Skinner, Gibson, Bilson, Campkin, and Deakin discussed the last matter, and it was agreed that something should be done.

The report was adopted.

### LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee was next read. It dealt with routine matters, mention being made of the gift of the Hanbury book to the library. This book was brought in for the Councillors' inspection.

### PARLIAMENTARY COMMITTEE.

The report of the Parliamentary and General Purposes Committee was then presented. This referred to the modification which had been brought about in the supply of cocaine to public institutions. The President reported on the action taken to secure a more equitable and satisfactory distribution of sugar for pharmaceutical purposes, and the hope was expressed that some practical solution of the difficulty will result from the deputation which waited on the Food Controller. An Organisation Sub-Committee was appointed, consisting of the President, Vice-President, and Messrs. Body, Currie, Deakin, Jenkin, Joseph, Keall, Rowsell, and Sargeant. The Army authorities are to be communicated with in regard to the rank and pay of pharmacists in charge of military hospital dispensaries. The President reported regarding the sale of diachylon, which had been discussed with the medical members of the National Birth-rate Commission.

### THE PARLIAMENTARY SECRETARY.

The PRESIDENT made a statement in regard to the position of Parliamentary Secretary. He reviewed the scheme for Parliamentary representation from the commencement in 1908 to the election of Mr. Glyn-Jones in 1910. When Mr. Glyn-Jones in 1914 announced that he would not be able to contest a further election it was decided that he should retain his post as Parliamentary Secretary, although not in the House. With his unique knowledge of the organisation required both for obtaining a seat in the House and for utilising the position to the best advantage after it has been obtained the Committee agreed that no person equally fitted for this position, which above all demands specialised organising faculty, is at the present time available. In addition, since the war began Mr. Glyn-Jones has devoted an increasing amount of his time to assisting the Secretary in the administrative work at the offices of the Society. This he will continue. In effect,



Mr. Glyn-Jones and Mr. Woolcock will continue to hold the same titles of Parliamentary Secretary and Secretary as formerly, and they will carry on together in double harness exactly the same duties as before; the only change will be a re-arrangement of the duties whereby some of the work formerly done by Mr. Glyn-Jones will be done by Mr. Woolcock, and *vice versa*. The question has been asked, continued the President, by some few pharmacists whether Mr. Woolcock is capable of carrying the extra burden which the Council has placed upon him. This point was carefully considered before he was unanimously asked by the Council to agree to endeavour to find a constituency. With the readjustment of the duties between the Secretary and the Parliamentary Secretary referred to the Council is convinced that any demands which may be made upon the Executive Department can be efficiently met. During the past four years, and particularly since the outbreak of war, Mr. Woolcock had carried greater responsibility with no more difficulty than when he first took office. Judging also from letters accompanying subscriptions to the Parliamentary Fund, there is no doubt in the minds of those who know Mr. Woolcock personally as to the wisdom of the step which the Council has taken.

#### REVIVING DIVISIONAL SECRETARIES.

Mr. GOODE then proposed the following motion:

That the old system of Divisional Secretaries be revived and put in force where necessary to work, as far as possible, in conjunction with the Secretaries of the Pharmaceutical Committees, or the present representatives of the Pharmaceutical Society.

He said there is need for more organisation in country districts, where chemists get out of touch with county Associations. The Divisional Secretaries would also be useful in dealing with the question of the demobilisation of pharmacists in their neighbourhood.

Mr. BILSON seconded the motion, and it was discussed by Messrs. Sargeant, Rowsell, F. J. Gibson, Skinner, Young, Hagon, Campkin, Deakin, Parry, and Neathercoat. Finally Mr. Goode consented to withdraw his motion on the understanding that the matter will be brought before the new Organisation Sub-Committee.

## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Reports from Local Centres.

#### ENGLAND.

**Baldon.**—The dispensing *impasse* (*C. & D.*, February 3, p. 47) has been temporarily settled by the doctor who had resigned now rejoining the panel and agreeing with the other local medical practitioner to do the dispensing without the aid of Mr. Robinson, chemist, who, through depletion of staff, is unable to undertake it. The Insurance Commissioners are stated to be considering the matter.

**Bradford.**—The review of the past year records that the Committee have secured exemption from military service for twenty-eight master chemists and one assistant, and that twenty-eight assistants have been set at liberty, in addition to the thirty-eight who had previously joined the Forces. No shops had had to be closed. The Committee's drug bill will be increased by 350% per annum by the new additional war allowance of 0.3d. per prescription. Arrangements have been made through the medical officer of health for the analysis, under the regulation which came into force on January 1, of doubtful medicines, at the instance of insured persons.

**Bristol.**—The Insurance Committee met on February 5, when the Medical Benefit Sub-Committee reported that it has arrived at an agreement with the Military Representatives as to which chemists and dispensers are indispensable for the needs of the civil population. The agreement provides for the release of nine men and for the placing of thirty-one men in a certified occupation, twenty-five of whom receive conditional exemption and the remaining six temporary exemption to March 30, 1917, with a view to the military authorities finding substitutes.

**Cambridge.**—At a meeting of the Insurance Committee on January 27, the question of dispensing on the early-closing day was discussed, and a resolution was received from the Pharmaceutical Committee to the effect that in view of existing conditions the adoption of a chemists' rota is not recommended at present, but that the Pharmaceutical Committee is willing to confer with the Panel Committee on the subject. This suggestion was eventually accepted.

**Derbyshire.**—The prescriptions dispensed during the six months ended June 30 last numbered 172,909, at an average cost of 6.29d., the total cost being 4,530l. 0s. 11d.

**Dorset.**—The Insurance Committee met on January 27, when the Medical Benefit Sub-Committee reported that the average total cost per prescription in the county is 6.49d., the average total cost per insured person is 14.07d., and the frequency of prescriptions per insured person is 2.16. The necessary notices in compliance with the provisions of Memorandum 227 I.C. were duly given to practitioners and chemists, but the only chemist who decided to withdraw is Mr. H. Richards, of Blandford. Mr. W. Flack, of 128 Fortune's Well, Portland, has been appointed on the panel of chemists for Portland.

**Hampshire.**—The Insurance Committee met at Winchester on February 5, when Mr. F. B. Wride, pharmacist, took his seat, on the nomination of the Hants County Council. The report of the Joint Consultative Committee on Tuberculosis was received, and it was decided to form an After-Care Committee for each petty-session district, in place of the existing District Committees. Pharmacists are to be represented on each Committee. The Prescription-checking Sub-Committee reported that the Checking Bureau's returns were very satisfactory. A panel practitioner is to be cautioned against the too extensive use of "Rep. mist." The Clerk was instructed to write to the Gosport doctors suggesting the inclusion of the Gosport formulae in the Hampshire Pharmacopœia.

**Kesteven (Lincs).**—Thirty-two chemists have accepted service for the ensuing year. Payments to chemists last year amounted to 162l. 2s. 10d.

**Leicestershire.**—The Insurance Committee met on February 7, when the Medical Benefit Sub-Committee reported that the threatened withdrawal of the exemption of Mr. G. W. Eley, chemist, had been abandoned. A letter had been sent protesting against the compulsory enlistment of Mr. P. C. G. Stiles, chemist. Mr. Shakespear, Hinckley, has resigned from the chemists' panel.

**Middlesex.**—The Insurance Committee met on February 5 at the Guildhall, Westminster. Mr. W. S. Glyn-Jones, M.P., who presided, received a vote of congratulation on his appointment as Parliamentary Secretary to the Minister of Munitions, and, in replying, said that, though he did not feel physically strong enough for the work, he hoped to be of some service. The Finance and General Purposes Sub-Committee's report recommended payments of 3,532l. 0s. 5d. for chemists' accounts for 1916, 246l. to the Joint Committee for the Pricing of Prescriptions, and 250l. to the Pharmaceutical Committee. The report was adopted. A letter from the Insurance Commissioners stated that they considered the Committee justified in instituting an inquiry in the case of Dr. B. P. O'Neill (*C. & D.*, October 14, 1916, p. 45), whom, however, they will not remove from the panel, though they take a very serious view of his conduct.

**Portsmouth.**—Mr. R. Trist, chemist, Southsea, has given up his Insurance dispensing work, as he considers the present remuneration inadequate.

**Sheffield.**—The Insurance Committee met at the Town Hall on February 7, when it was decided that the closing-hour for Insurance dispensing shall be 8 p.m., except when the Committee authorise an earlier hour. For administrative expenses a grant of 100% was made to the Panel Committee and one of 160% to the Pharmaceutical Committee. It was agreed to pay 803l. 6s. 7d., balance of chemists' accounts for November and on account of December, and the sum of 124l. to the North-East Midland Prescription Bureau on account of the year 1917. Three complaints against practitioners had been investigated, but all were dismissed.

**Staffordshire.**—The Insurance Committee on February 3 resolved to ask the Panel Committee to reconsider its decision in favour of the adoption of stock mixtures.

**Yorkshire (West Riding).**—The Medical Benefit Sub-Committee last week decided to support the scheme for the provision of free medical treatment of non-insured dependants, widows, and orphans of soldiers and sailors through the Insurance Committees. Representations on the matter are to be made to the Government.

#### WALES.

**Cardiganshire.**—The Insurance Committee has decided to pay chemists' accounts for the December quarter as soon as the Cardiff Pricing Bureau has reported on the checking and analysis of prescriptions.

**Pembrokeshire.**—The sum of 308l. 19s. 6d. is to be paid to chemists in respect of their accounts for the December quarter.



## Associations' Winter Session.

**Birmingham.**—The Pharmaceutical Association held a successful whist-drive at the Grand Hotel on January 31, in aid of the Y.M.C.A. Hut Fund and the St. John Ambulance Rest Station, Snow Hill. Over two hundred members and friends took part in the games. Mr. W. E. Mann acted as M.C.

**Bournemouth.**—The annual meeting of the Bournemouth Pharmaceutical Association was held on January 30 at Gervis Hall, Mr. A. E. Lodder (President) in the chair. Several firms had written to the Secretary asking him to make their goods known to the members—a proceeding which was deprecated by the meeting. The Secretary was directed to write to various proprietary-owners with reference to placing their goods on the P.A.T.A. list. Mr. D. Buchan (Treasurer) presented a balance-sheet, showing a balance in hand of 8*l.* 5*s.*, which was adopted. The following officers were elected for the ensuing year: *President*, Mr. T. Boyle; *Treasurer*, Mr. D. Buchan; *Hon. Secretary*, Mr. J. H. Scampton; *Assistant Hon. Secretary*, Mr. A. J. North; *Committee*, Messrs. Bilson, Bingham, North, and Rose. Messrs. Bingham, Buchan, and Rose were appointed delegates to the Bournemouth Chamber of Trade, and Mr. J. H. Scampton was elected to the Committee of the Chamber. Votes of thanks to the officers for the past year were tendered and acknowledged.

**Cardiff.**—The Pharmacists' Association met at the Angel Hotel on January 30, Mr. Lea (President) in the chair.



MR. HEBER FURNIVALL,

the new President, was apprenticed to his father, passed the Minor in 1891, and a few years later became a partner in the business. He takes a keen interest in local affairs outside pharmacy.

inadequate remuneration for Insurance dispensing. A unanimous vote of thanks was passed to the President for his address, and the officers for the past year were heartily thanked for their services.

**Chester.**—The Chester and District Pharmacists' Association met at the Blossoms Hotel on February 1, Mr. David Dickinson (President) in the chair. Mr. Kenneth Dickinson (Hon. Secretary) presented a satisfactory balance-sheet. It was agreed to invite prominent pharmacists to visit the city and give their views on current topics. A Pharmacists' Section of the St. John Ambulance Association has been formed. A letter of condolence was sent to the family of the late Mr. Thomas Shephard.

**Great Yarmouth.**—The monthly meeting of the Great Yarmouth Pharmaceutical Association was held on February 1. Mr. A. E. Richmond presided in the absence of the President through illness. A letter was received from Mr. P. R. Hill (on active service in France) thanking the members for Christmas greetings. The Insurance Commissioners sent copies of Form 158 I.C., and it was decided that the Pharmaceutical Committee should meet on February 9.

**Irish C.A.A.**—A well-attended meeting of the Irish Chemists' Assistants' Association (Dublin Central) was held at the Association's rooms, 38 Upper Sackville Street, Dublin, on January 17. Mr. J. Hogan, Ph.C. (President), welcomed the members to the new rooms. The Hon. Treasurer submitted his report, showing the membership as 136. Sub-

scriptions received, 31*l.* 9*s.*; expenditure 25*l.* 5*s.* 5*d.* Correspondence was read from the Retail Drug Association anent closing of pharmacies during stated periods, the spread of assistant organisation in the provinces, the forthcoming visit of country delegates to Dublin, and the future of pharmacy in Ireland. The speakers included Mr. M. Greenbat, Ph.C., and Mr. FitzGibbon (Limerick). The generous support of the cross-Channel houses was referred to in felicitous terms, and their representatives were invited to visit the new rooms and see how the money had been spent.—The Cork branch met at the Crescent Hotel on January 18, Mr. P. Rohaghan, Ph.C., presiding. The Chairman delivered an inspiring address, mentioning that practically every chemist's assistant in the city is a member of the Association, and enunciating the principle that the interests of employers and employed are identical. Mr. Rohaghan was then elected to represent the branch on the Executive Committee of the Association.

**Hull.**—The annual meeting of the Hull Pharmacists' Association was held at the Grosvenor Hotel on Febru-

ary 6, Mr. I. W. Chapman in the chair. Mr. Jones (Secretary) presented his annual report, which said that the membership had increased during the year, so that now only about 5 per cent. of the pharmacists of the town held aloof. The report, however, regretted the small proportion of the members who attended each meeting. The Treasurer's (Mr. Newton) balance-sheet showed 14*l.* 1*s.* 3*d.* to the good. The membership had increased from forty-eight to sixty-one. It was decided to adopt the balance-sheet and invest 10*l.* in the War Loan.



MR. L. S. SELLE.

Officers were elected as follows: *President*, Mr. L. S. Sellé; *Secretary*, Mr. Idden; *Treasurer*, Mr. Newton; *Vice-Presidents*, Messrs. Chapman, Jones, and T. Smith; *Committee*, Messrs. Wharton, Richardson, Spilman, and Sawyer. Votes of thanks were heartily passed to the retiring officers. The new President took the chair, and said that on February 22 he would invite the members to take tea with him at the Metropole, and they would discuss together the result of an investigation which was to be conducted into the time occupied in dispensing. Other items on the programme of the session included one on a motoring tour in Yorkshire by a member, an address by himself on chemists' bookkeeping and income-tax, a debate between two members on individualism *v.* communism in pharmacy, a visit and address from a West Riding pharmacist on patent medicines, and from other visitors. A discussion took place on the minimum prices for scheduled poisons, and resolutions were passed that 3*d.* be the minimum in Part I., with 6*d.* for cyanides, and 2*d.* in Part II. A resolution was passed that the Association meet for the future at the Metropole. A Committee, consisting of the President, the Secretary, and the Treasurer, was appointed to inquire and report to the next meeting on a scheme for uniform prices. The box which was placed on the table for the first time for the Benevolent Fund was passed round. Mr. Sellé, the new President, was apprenticed to Mr. T. W. Robinson, and trained at the Manchester College of Pharmacy, qualifying in 1890, and starting in business at Hesse Road. He is Secretary of the Pharmaceutical Committee and of the Hull Chemists' Trading Association.

**London (N.).**—The North London Association met at St. Padarns, Holloway, on February 1, Mr. C. W. Matthews (President) in the chair. A discussion on trade organisation elicited a feeling of dissatisfaction that the Insurance Commissioners would only treat with a federation of Pharmaceutical Committees, and also the opinion that the minimum dispensing-fee should be 3*d.* Mr. J. P. Gilmour then gave an address on the "Pharmaceutical Journal," for which he was cordially thanked.

**Newcastle-upon-Tyne.**—The monthly meeting of the Pharmacists' Association was held on January 10, Mr. J. F. Simpson (President) in the chair. Dr. Allison's paper, "Some Thoughts on the War," was not read, as the doctor was absent on War Office business. The P.A.T.A. protection campaign was discussed, and it was decided to issue a minimum price-list of non-protected proprietaries as a supplement to the local drug price-list, and to urge on all pharmacists adherence to the agreed prices.



**Newport (Mon.).**—The annual general meeting of the Newport Association was held at the Shaftesbury Hotel on January 31, Mr. Gratte (President) in the chair. The Secretary's report and balance-sheet showed a balance in hand, which is to be invested in War Savings Certificates. The following officers were elected: *President*, Mr. Benson Harries; *Vice-President*, Mr. Badgett; *Hon. Secretary*, Mr. Findlay; *Committee*, Messrs. Davis, Giles, Menhinick, Williams, and Wilson. The retiring President and the Secretary were heartily thanked for their services. The adoption of a minimum price-list was postponed.

**Plymouth.**—The Committee of the Plymouth and District Association met on January 18, Mr. Maitland in the chair, and formally adopted the minimum retail price-list of the Devon Association, voting thanks to the latter body for the assistance it had rendered in the matter. Ten guineas was voted to the Orphan Fund of the Pharmaceutical Society. It was decided that members be left to use their own discretion in the supply of glycerin.

**Röntgen Society.**—At the meeting held at the Institution of Electrical Engineers on February 6, Dr. E. E. Fournier d'Albe described the optophone, an instrument upon which he has been working for the purpose of enabling blind persons to read by sound. The optophone consists of a small "siren" disc illuminated by a straight Nernst light, an optical arrangement for projecting an image of the line of luminous dots furnished upon the type to be read, a set of selenium or antimonite bridges exposed to the light reflected by the type, a Brown "wireless" telephone relay connected with these bridges, and the telephone receiver used for reading. The success so far obtained with the instrument is most encouraging.

**Southampton.**—At the January meeting of the Southampton Pharmacists' Association Mr. Hugo Wolff gave an address on "How to Make Pharmacy a Profitable Profession." Mr. W. Martin (President) was in the chair, and the paper provoked a good discussion.

**West Bromwich.**—The annual meeting of the West Bromwich Association was held on January 30, Mr. Beattie (President) in the chair. The retiring President (Mr. Griffith) was absent through illness. The reports of the Treasurer and Secretary were adopted. The former showed a balance in hand of 5*l.* 7*s.* 2*d.* The new officers are: *President*, Mr. Beattie; *Vice-President*, Mr. G. Hampton; *Treasurer*, Mr. Rex Allen; *Hon. Secretary*, Mr. A. S. Barnes. The President moved, and the Treasurer seconded, a hearty vote of thanks to the late Secretary, Mr. Kemsey Bourne, who, in acknowledging the vote, said his interest in the Association was in no way lessened by his relinquishing the secretaryship. The tribute paid to Mr. Kemsey Bourne was a striking one, it being freely acknowledged that he has been the mainstay of the Association since its foundation. Mr. Barnes, the new Secretary, recited some verses in praise of Mr. Kemsey Bourne, and we regret that our space does not allow of us quoting these.

**West Ham.**—A meeting of the West Ham, East Ham, and Metropolitan Essex District Association of Pharmacists was held in Earham Hall, Forest Gate, on January 18, Mr. Johnson (President) in the chair. The attendance was a record one. Mr. Jenkin gave an address on "Pharmaceutical Politics." Messrs. Matthews, Raynor, Kirkpatrick, Mitchell, Goode, and others discussed it.

## New Books.

Wood, Horatio C. J., M.D. *Pharmacology and Therapeutics for Students and Practitioners of Medicine*. Second Edition. 9 in. x 6 in. Pp. xii + 455. (Philadelphia and London: J. B. Lippincott Co. 18*s.* net.) [An excellent handbook, written on scientific lines. The chapters are as follows: I. Preliminary considerations; II. Drugs used to affect secretion (diuretics, diaphoretics, expectorants, drugs which diminish secretion); III. Drugs used to affect nervous system (somniafics, anaesthetics, analgesics, spinal depressants, motor-nerve paralyzants, sensory-nerve paralyzants); IV. Drugs used to affect circulation (cardiac stimulants, vasomotor stimulants, drugs which reduce blood-pressure); V. Drugs used to affect the alimentary tract (stomachics, emetics, cathartics); VI. Drugs affecting metabolic processes; VII. Drugs acting on causes of disease (anthelmintics, antimalarials, disinfectants); VIII. Extraneous remedies (digestants, alkalies, demulcents, emollients, contra-irritants, escharotics, protectives); IX. Drugs of minor importance (calmatives); Index. The monographs contain lists of official (U.S.P.) preparations, and the more important drugs have reference-lists of literature in respect to their pharmacology.]

## Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

### Report on January Analytical Exercise.

The powder distributed to students on January 9 consisted of equal parts by weight of barium, strontium, and calcium sulphates. The calculated composition of such a mixture is:

Ba	...	...	...	...	19.6
Sr	...	...	...	...	15.9
Ca	...	...	...	...	7.7
SO <sub>4</sub>	...	...	...	...	49.8
H <sub>2</sub> O	...	...	...	...	7.0

100.0

The powder also contained as impurities distinct traces of sodium and of a silicate, and recognisable traces of iron, chlorine, and the nitric-acid radical.

Samples of the powder were distributed to thirty-three students, and thirteen reports were sent in for examination. The sulphuric-acid radical was missed by a single student, while barium was missed by two, strontium by five, and calcium by two. The evolution of water when the powder was heated in a dry test-tube was overlooked in five cases.

### PRIZES.

The First Prize for the best analysis has been awarded to THOS. C. EGAN, c/o T. Clarkson, Tower Street, West Hartlepool.

The Second Prize has been awarded to F. ATKINS, 7 Francis Road, Leyton, Essex.

*First Prize.*—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

*Second Prize.*—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

### MARKS AWARDED FOR ANALYSES.

#### 1. Correspondents who are unqualified:

T. C. Egan (1st Prize) ... 95	Somme	72
F. Atkins (2nd Prize) ... 94	Unicorn	71
Digitalin ... 91	Onyx	67
Eglinton ... 89	F. J. D.	64
Twinkle Star ... 80	Nil Desperandum	54
Jayjay ... 74	Dinah	12

#### 2. Correspondent who is qualified:

P. A. A. W. ... 92

The rest of Dr. Dobbin's report and his replies to competitors will be given in our next issue.

## Practical Notes and Formulas.

### Mucilage for Paraffin-paper.

Dextrin	...	...	...	30 parts
Rice starch	...	...	...	30 parts
Amyl-acetate lacquer	...	...	...	20 parts
Beeswax	...	...	...	20 parts

### Pickerill's Mouth-wash.

Cream of tartar	...	...	16 gr.
Tartaric acid	...	...	8 gr.
Oil of lemon	...	...	24 min.
Saccharin	...	...	2 gr.
Water to make	...	...	8 oz.

One teaspoonful in half-a-tumbler of water for a mouth-wash. It is claimed that this wash immediately excites a copious flow of saliva with a high alkalinity index, which is maintained over a considerable period.

### Denaturing Alcohol.

THE use of tartar emetic is suggested for denaturing spirituous liquids used for bathing-purposes. The Denver Branch of the American Pharmaceutical Association suggests the following formula for bathing-spirit:

Tartar emetic	...	...	1 gram
Formalin	...	...	4 o.c.
Water	...	...	125 c.c.
Alcohol to make	...	...	1,000 c.c.

One ounce or more of this mixture taken internally will cause vomiting.



## Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

### 42 Cannon Street, E.C., February 8, 5.30 p.m.

There is a continued quiet feeling about the markets generally owing to the accumulating difficulties under which business is now carried on. Restrictions on export and high prices, war-risk insurance, and the shortage in freights all have a hampering tendency, while the unrestricted German piracy on the high seas has a tendency to increase actual spot values of all imported drugs and other produce. It will be seen that the bulk of price changes this week is upwards, and at the present critical period most holders prefer to look on and wait developments. A welcome and not unexpected reduction has been made in all iodine preparations, which is aimed at foreign competition. Genuine B.P. copaiba is very scarce and dearer; cubebs are again higher. Quinine is firmer, the situation depending upon Holland. Arsenic, sulphur, formaldehyde, sodium hyposulphite, turpentine, linseed oil, and shellac have also advanced. Citric acid, squill, and some of the spices are firmer. Salol is higher; acetyl-salicylic acid, hexamine, and thymol are cheaper to buy:

Higher	Firmer	Easier	Lower
Arrowroot	Citric acid	Acid acetyl-	Canary-seed
Arsenic	Cloves	salicylic	Iodine, crude
Balsam tolu	Jalap	Cottonseed oil	and resub.
Copaiba	Peppers	Elemi	Iodoform
Coriander-seed	Pimento	Hexamine	Menthol
Cubeb oil	Quinine	Phenacetin	Mint oil
Cubebs	Solal	Salicylates	(Japan)
Dill-seed	Soda nitrate	(U.S.P.)	Potassium
Formaldehyde	Squill		iodide
Gambier			Sodium iodide
Honey			Thymol
Linseed oil			Vanillin
Myrrh			
Sarsaparilla			
Shellac			
Soda hypo-			
sulphite			
Sulphur			
Turpentine			
Wax, bees'			
(Jam.)			
Wood oil			
(Hankow)			

### Cablegram.

NEW YORK, February 7.—Business is fair. Cartagena ipecac. has advanced to \$2.35, and cascara sagrada to 11c. Buckthorn bark is also dearer at 25c., and 70c. is now asked for copaiba. Both long and short buchu has advanced to \$1.30. Menthol is lower at \$3.40. Salicylates are also lower, makers having reduced the price of salicylic acid to 90c., sodium salicylate to 95c., methyl salicylate to 90c., and salol to \$1.50 per lb.

AMMONIA SULPHATE.—For home trade the price is 15*l.* to 15*l.* 10*s.* per ton net, naked: the exportation is prohibited.

ANISE.—No Russian or Spanish appears to be available on spot: the last sale of Spanish was reported some days ago at 110*s.*, and to arrive 105*s.* per cwt. c.i.f., war risk excluded, is quoted.

ARROWROOT.—The sales include 1,100 barrels St. Vincent at from 2*½d.* to 4*¾d.* per lb. for manufacturing qualities.

ARSENIC is again dearer at from 55*l.* to 60*l.* per ton for best Cornish powder.

BELLADONNA-ROOT.—A lot of fifty-six bags recently arrived from India, but was said to be mostly sold; possibly 8*s.* 6*d.* per lb. would buy some.

BENZALDEHYDE, or artificial oil of bitter almond, is offered at 25*s.* for prompt, and March delivery at several shillings less.

BERGAMOT OIL.—Spot sales of 38-per-cent. esters have been made at from 18*s.* 3*d.* to 18*s.* 6*d.*

CAFFEINE.—The value of home-trade requirements of the pure crystals from makers is 40*s.* per lb., but it is entirely nominal. Dealers quote 52*s.* net.

CAMPHOR.—The exports from Japan during November amounted to 404,226 kin, valued at 635,671 yen. During the eleven months ended November 30 the exports were as follows:

	1914	1915	1916
British India ...	800,044	1,191,551	1,309,170
Great Britain ...	358,318	308,217	635,355
France ...	235,719	512,008	374,192
Germany ...	289,807	—	—
United States ...	690,343	950,896	1,917,004
Australia ...	99,083	162,878	92,597
Other countries ...	295,164	407,633	570,858
Kin ...	2,768,478	3,533,183	4,899,176
Yen ...	2,502,612	3,162,105	5,103,283

CANARY-SEED has been sold at lower prices, closing better than at the worst. Good Morocco has changed hands at 78*s.* 6*d.* to 79*s.* 6*d.* per quarter.

CASCARA SAGRADA.—After a few tons had been disposed of at a comparatively low figure the price has gone back again to 100*s.* asked. The stock in first-hands in London at the end of January was 53 tons, against 106 tons in 1916. The deliveries during January were 44 tons, and the arrivals in London *nil*. The deliveries last month were large, and made a serious inroad on the stock, but we understand that several consumers generally cover a year's requirements at this period. In auction 247 bags of fair, rather dark and coarse, of 1916 import were limited at 100*s.* Twenty-two bags second-class oil damaged, partly dark thick and coarse, sold at 92*s.* 6*d.*

CHAMOMILES.—A lot of 36 bales has arrived from Belgium which are likely to meet with a ready sale. Fair creamy white have been sold at 246*s.* 6*d.* Bold French are offered at from 325*s.* to 365*s.*

CINCHONA.—The exports from Java to Europe during January were 2,687,500 A. lb., against 1,527,000 A. lb. in 1916 and 767,000 A. lb. in 1915. In the drug auction 32 serons of fair Guayaquil crown chips sold at 1*s.* per lb.

CITRIC ACID is firmer at 2*s.* 9*d.* per lb. on the spot.

CLOVES are firmer, the sales including fair Zanzibar on spot at from 8*d.* to 8*½d.*; to arrive, January-March shipment has been sold at 7*¾d.* c.i.f. d.w., and January-March delivery at 8*½d.*

COD-LIVER OIL.—Our Bergen correspondent writes on January 29 that the new cod-fishing is now on the point of commencing, and regular reports as to progress will appear. There is no business to report in cod-liver oil.

CODEINE is unaltered at 21*s.* per oz. net for the alkaloid pure crystals, 18*s.* for hydrochloride and sulphate, and 17*s.* for phosphite.

COPAIBA.—The scarcity of genuine B.P. has now become acute, and it is doubtful if even five or ten cases could be bought in the market from first-hands, only a limited quantity offering at 4*s.* 6*d.* per lb.

CORIANDER-SEED has been a rising market, the latest sales being at 60*s.* per cwt. for fair Morocco.

CUBEB OIL.—Owing to the scarcity of berries, an advance in oil has taken place to 27*s.* 6*d.* per lb. for English distilled.

CUMIN-SEED is unchanged at 85*s.* per cwt. for good sifted Morocco.

DILL-SEED is dearer at 32*s.* per cwt. for fair East Indian.

FENUGREEK-SEED is steady at 34*s.* per cwt. for fair Morocco.

IODINE PREPARATIONS.—The Iodine Convention having reduced the price of crude iodine by 2*d.* per oz. to 8*½d.* per oz., the makers of iodine preparations have correspondingly reduced their prices as follows: Potassium iodide, 12*s.* 4*d.*; 14 lb. and upwards, 12*s.* 1*d.*; 28 lb. and upwards, 11*s.* 10*d.*; 1-cwt. lots and upwards, 11*s.* 7*d.* Sodium iodide, 13*s.*; 14 lb. and upwards, 12*s.* 8*d.*; 28 lb. and upwards, 12*s.* 4*d.* Iodoform, 17*s.* 2*d.*; 14 lb. and upwards, 16*s.* 8*d.*; 28 lb. and upwards, 16*s.* 4*d.* Resublimed iodine, 14*s.* 3*d.*; 14 lb. and upwards, 13*s.* 11*d.*; 28 lb. and upwards, 13*s.* 8*d.* All prices for iodine are now strictly net. It will be remembered that at the end of December 1916 the makers instituted a special reduction claim of fourteen days on iodine



preparations—that is to say, all buyers have the full benefit of any reduction of official prices for fourteen days from date of invoice. This clause was given to counteract the cheaper offers of foreign makes, and still holds good. The previous alteration in crude iodine was on July 31, 1915, when the Convention raised the price from 9d. to 10½d. per oz., the lower figure having been in vogue since August 1913.

**JALAP.**—Vera Cruz is fully 1d. per lb. higher, holders asking 10½d. for 9½ per cent. test.

**LEMON OIL** is still offering at a wide range of prices—viz., from 4s. 4d. to 4s. 10½d. c.i.f.—with spot values at from 4s. 6d. to 4s. 9d. per lb.

**LINSEED** is steady at 115s. per quarter for good quality.

**LYCOPORIUM** of treble-sifted quality is offered at from 4s. 6d. to 4s. 9d. net.

**MASTICH.**—Sales privately of fair quality have been made at 1s. 9d.

**MILK-SUGAR.**—American make of finest quality, just landed, can be had at 177s. 6d. per cwt. on the spot for a limited quantity. Dutch is still quoted at 185s.

**OILS (FIXED).**—*Linseed* is dearer, closing at 52s. 9d. per cwt. in pipes landed and 53s. 9d. landed in barrels. *Cottonseed* is lower at 48s. 6d. for crude in pipes, and pale refined in pipes on spot is 51s. 6d. to 52s.; for sweet refined in barrels from 58s. to 60s. is quoted. *Rape* is steady, with ordinary brown naked on spot offering at 54s. to 55s. British refined in barrels is 58s. to 59s., and Japanese in cases is 51s. 6d. c.i.f. for February-March shipment. *Coconut* is quiet at 64s. for Ceylon in hogheads on spot and 62s. in pipes. *Cochin* on spot is 64s. to 66s., and shipment 63s. 6d. c.i.f. London pressed is 52s. *Hankow Wood* oil is dearer at 83s. spot. *Soya* is steady; *Hull* (spot) crushed is 48s., and in London December-January shipment is 47s. c.i.f. *Lagos Palm* is firm at 48s. on spot, and 44s. 6d. ex quay Liverpool.

**OPIMUM** remains very firm, with spot sales of 10-per-cent. Persian at 36s. per lb. and buyers.

**ORANGE-PEEL.**—A limited quantity of fair so-called Maltese strip is available at 2s. to 2s. 2d. per lb.

**PHENACETIN** is easier at 82s. 6d. per lb. net.

**QUININE.**—There has been a fair amount of buying from second-hands and makers, with up to 2s. 6d. per oz. paid for sulphate. Last week we referred to the makers' price as 2s. 5d. for 1,000 oz. lots; this should have been 10,000 oz. lots, but makers are not anxious sellers. A combination of circumstances has a tendency to put prices on the up-grade—e.g., the cost of manufacture in Holland is rising, and there has been a partial cessation of steamship traffic with that country.

**SHELLAC.**—The spot value has advanced from 5s. to 6s. per cwt., with moderate sales on a basis of 156s. to 157s. for usual standard TN orange, good marks of orange selling up to 205s. A. C. Garnet is also dearer and in good demand at from 162s. 6d. to 165s. for cakey and blocky. The sales for delivery include March at 154s. to 155s. 6d., and May 156s. to 158s.

**SODA HYPOSULPHITE** is dearer at 19l. per ton for pea crystals ex wharf.

**SQUILL.**—The cold weather has stimulated the demand, and an advance of from 2s. 6d. to 5s. per cwt. is asked in some quarters.

**STAVESACRE-SEED** is plentiful at 86s. per cwt. on the spot.

**STROPHANTHUS.**—After a lengthy period there is an offer of genuine Kombé at 4s. 3d. per lb. subject to being unsold. *Hispidus* is fairly plentiful at 2s. on spot.

**STRYCHNINE** remains firm on the basis of 3s. 4d. per oz. net for the B.P. pure crystals, and 5s. 1d. net for sulphate, from makers.

**SULPHUR** is higher at from 24l. to 25l. per ton for flowers in bags (not barrels) ex wharf net; *Roll* is 23l. In the drug-auction a lot of fifty bags Sicilian sulphur-flowers sold at from 22s. to 23s. per cwt.

**TURPENTINE** is much dearer, with a large business on an excited market, American closing at 56s. 6d. per cwt. on the spot, an advance of 4s. on the week.

### London Drug-auctions.

Commercial Sale Rooms,

Mincing Lane, E.C., February 8.

A FAIR quantity of drugs was disposed of at the auctions at generally higher prices. Cape aloes, although plentiful, sold at steady rates. Socotrine in kegs failed to sell, but are usually dealt in privately. Balsam tolu realised an advance of 1d., and for Sumatra benzoin there was a good demand, especially for the commoner grades. Siam has been selling at better prices privately, and extreme rates are now asked for Palembang. Cardamoms are quite neglected, and very high prices were paid for wormy cassia fistula. Cascara is quiet, but firmly held. Zanzibar drop dragon's-blood brought very full rates. Elemi sold cheaply,

and for Siam gamboge, which is still scarce, the rate was not quite so firm. Honey of all descriptions sold at unheard of prices. Matto Grosso ipecac. is quiet and plentiful. Kola sold steadily, while for menthol a reduction of 3d. to 4d. per lb. was accepted without reserve. Myrrh is scarce, and brought higher rates. Rhubarb is steady, but generally quiet. Sarsaparilla is now very scarce, and higher prices are being paid. Tinnevely senna is very quiet, and prices have an easy undertone, especially pods. Jamaica wax sold at an advance of 10s. per cwt., and privately there is a good demand. The following table shows the quantity of goods offered and sold:

		Offered	Sold			Offered	Sold
Aconite (Jap.)	...	23	0	Honey—			
Agar-agar	...	18	10	Chilian	...	213	213
Albumen, egg	...	33	0	Cuban	...	95	95
Alkanet	...	1	0	Jamaica	...	198	198
Aloes—				San Domingo	...	37	37
Cape	...	129	31	Ipecacuanha—			
Socotrine	...	29	0	Matto Grosso	...	17	1
Zanzibar	...	18	0	Kino	...	5	5
Balsam Canada	...	1	0	Kola	...	54	34
Balsam peru	...	2	0	Lime oil	...	10	0
Balsam tolu	...	20	10	Linden-flowers	...	20	0
Benzoin—				Liquorice-root	...	58	0
Palembang	...	23	0	Liquorice-root			
Siam	...	35	0	(crushed) (bls.)	160	0	0
Sumatra	...	217	66	Lobelia-herb	...	4	0
Buchu	...	23	0	Lycopodium (cwt.)	...	5	0
Burgundy pitch (cwt.)	1	0	0	Mastic	...	13	*5
Calamand-root	...	33	0	Mentbol	...	21	12
Calumba	...	50	0	Mint oil (Jap.)	...	41	16
Camphor	...	15	15	Musk (bott.)	...	1	0
Cananga oil (dm.)	...	1	1	Myrrh	...	4	4
Canabis ind.—				Olibanum	...	72	0
African	...	33	0	Orange-peel	...	18	8
Bombay	...	4	0	Potash carb.	...	6	0
South African	...	6	0	Puree	...	1	0
Canella alba	...	10	0	Quillaia	...	43	43
Cantharides	...	4	0	Rhubarb	...	41	26
Cardamoms	...	115	5	Rose-petals	...	22	0
Cascara sagrada	...	419	22	Rosin (Greek)	...	44	0
Cascarilla	...	10	0	Sage	...	40	0
Casbew-nuts	...	100	0	Sandalwood oil (cs.)	...	2	0
Cassia fistula	...	3	3	Sarsaparilla—			
Chiretta	...	43	0	Lima	...	6	2
Cinchona	...	138	32	Native Jam.	...	9	0
Cinnamon oil	...	2	0	Senna and pods—			
Cochineal	...	39	*15	Alex. and Arabian	...	172	0
Colchicum-root	...	2	0	Tinnevely	...	442	141
Condurango	...	133	0	Slippery-elm bark	...	7	0
Croton seed	...	17	0	Soy	...	41	0
Cubebs	...	5	0	Squill	...	45	0
Cuttlefish-bone	...	69	0	Stavesacre	...	8	0
Digitalis-leaves	...	57	0	Stramonium	...	9	0
Dill seed	...	49	0	Sulphur (tons)	...	4	4
Dragon's-blood	...	23	10	Tamarinds	...	20	0
Elemi	...	21	1	Tonka-beans	...	17	1
Ergot	...	47	0	Tragacanth	...	38	2
Eucalyptus oil	...	40	0	Turmeric	...	214	0
Euphorbia pil.	...	6	0	Turps (Venet.)	...	1	0
Gamboge	...	3	2	Valerian (Jap.)	...	4	0
Gentian	...	104	2	Wax (bees)—			
Gentian-powder	...	11	0	East Indian	...	54	14
Geranium oil (cs.)	...	8	8	Jamaica	...	7	7
Guarana	...	2	0	Morocco	...	35	0
Gum acacia	...	5	0	West Indies	...	1	1
Gurjun oil	...	255	0	Wax, Carnauba	...	45	45
Jalap	...	67	0	Wax, veg. (Jap.)	...	35	10

\* Sold privately.

**AGAR-AGAR.**—Ten bales of No. 1 Kobe strip sold at 1s. 10d. per lb., subject to sellers' approval. Market very quiet privately, but Japan still asks high prices.

**ALOES.**—Cape was quiet but steady. 15 cases of good hard bright Mossel Bay firsts selling at 41s., fair firsts at 40s., dull seconds and part drossy 36s. to 37s., and ordinary dull 36s. per cwt. A good selection of Socotrine in kegs was offered and bought in. Sales have been made privately of fair to good hard livery at from 95s. to 100s.

**BALSAM TOLU** was 1d. per lb. dearer compared with the previous sale, ten cases of fair hard unsorted selling at 1s. 8d. per lb.

**BENZON.**—Sumatra was in good demand at steady prices, especially for the medium and common grades. Sixteen cases good fair almondy Sumatra seconds sold at 7l. 7s. 6d. to 7l. 10s. per cwt.; 18 cases ordinary seconds sold at 5l. 17s. 6d., and preferable ditto at 6l. to 6l. 2s. 6d.; twenty-four cases ordinary brown seconds sold at 5l. 10s., and very false packed country-cut went at 90s. Palembang thirds with barky sides were held at 85s., the previous sale price being about 67s. 6d. per cwt. Good seconds Siam almonds were limited at 23l. 10s. pea-size in block at 18l., much darker ditto at 12l., and small grains in block at 10l. 10s.

**CALUMBA.**—A lot of 50 bags, the only parcel offering in first-hands, was limited at 55s. for ordinary small to medium brown natural sorts.



**CAMPHOR.**—Five cases of 2½-lb. slabs sold cheaply at 3s. 6d. per lb. net, no discount.

**CANANGA OIL.**—A drum of Java (in prize) weighing 2½ cwt. sold at 17s. 6d. per lb.

**CANNABIS INDICA.**—The value of genuine Bombay tops is 8s. 6d. and African (Mozambique and Cape) 2s. to 2s. 6d. per lb., as to quality.

**CARDAMOMS** continue neglected. Three cases bold dull Ceylon Mysore sold at 1s. 6d., a case of small splits at 10d., and seeds 1s. 3d.

**CASSIA FISTULA.**—Three bags of common wormy Dominican pod sold at 40s. per cwt.

**CUBES** are extremely scarce, only five bags offering, and 16½ was wanted for them, the quality being genuine, slightly stalky; this is an advance of 20s. per cwt.

**DIGITALIS-LEAVES.**—A new lot of 57 bales freshly gathered English was offered of fair greenish quality, with a certain proportion of brown, for which from 1s. 6d. to 1s. 9d. was asked.

**DRAGON'S-BLOOD.**—Four cases of good "coloury" Zanizbar drop sold at the high price of 13½ per cwt., and six cases of ordinary dull Singapore slabs sold at 6½ 10s. per cwt.; no re-boiled offered.

**ELEMI.**—An odd caso of fair white Manila firsts sold at 5½s., being cheap.

**GAMBOGE.**—Although only two cases offered, the top price of the last auction failed to be realised, 3½ per cwt. being paid for good Siam pipe slightly blocky. The gum is still very scarce.

**GENTIAN.**—Fair quality was retired at 75s., slightly less would buy. Two bags of grease-damaged and siftings sold at 26s.

**GERANIUM OIL.**—Eight cases (in prize) sold at 12s. 3d. per lb.

**GUM ACACIA.**—Five cases of good small to bold glassy Aden were retired at 60s. per cwt. The first-hand stock in London at the end of January 1917 was 10,926 packages, against 5,963 packages in January 1916.

**GURJUN OIL.**—A lot of 265 drums Singapore was catalogued, but not up in time for sale.

**HONEY.**—The invasion of the market by the wholesale grocers, confectioners, and cake-makers again sent up prices with a bound, but prices are now rapidly nearing a level at which it will not be even worth their while to buy. Compared with prices paid privately rates were 20s. to 25s. per cwt. higher, but on the previous auction prices were 30s. to 40s. dearer. The sales comprised nice pale set Jamaica in barrels at 100s., fair to good pale set and setting 90s. to 92s., dark brown set 86s. to 91s., yellowish set 89s. to 91s., yellow set and setting 85s. to 90s. Cuban pale setting 87s. 6d., ordinary yellow set 82s. to 84s. 6d., very dark setting 80s., unsightly fermented 72s. to 76s. 6d., dirty 55s., low black liquid 25s. San Domingo brown set in barrels and casks 80s. to 89s. Chilean Pile I yellow set 88s., ullaged 87s. 6d., Pile II. 89s. Privately the demand principally from the grocery and canned-goods houses, has remained brisk, and several dealers have had a considerable turnover in their stocks at a substantial profit. Up to 72s. 6d. has been paid for bright yellow Cuban, and 90s. is asked for white set Californian.

**IPCACUANHA.**—Matto Grosso was quiet but steady, a single bale of fair slightly mouldy selling at 10s.; good fair quality is also obtainable at this price. The deliveries during January were 74 Matto Grosso, 75 Cartagena, and 9 East Indies, the arrivals being *nil*. The stock at the end of January 1917 consisted of 569 Matto Grosso, against 94; 5 Minas, against *nil*; 28 Cartagena, against 68; and 62 East Indian, against 19.

**KINO.**—Five bags from Bombay of very woody gum, said to have astringent properties, sold without reserve at the low figure of 3½d. per lb.

**KOLA** was steady, fifteen bags of good bright West Indian selling at 6½d., fair whole and halves at 5½d., and very dark halves or sweepings at 2d.

**LIQUORICE-ROOT.**—A lot of 100 bales of crushed from Alexandria was offered, but no bid was made. The drug was described by Harrison & Self as genuine B.P., full details of the analysis being given.

**MENTHOL** sold without reserve at a decline of from 3d. to 4d. per lb., ten cases of Suzuki selling at from 13s. 2d. to 13s. 5½d., and for a case of Nagaoka 12s. 5d. was paid for extra bold crystals.

**MINT OIL** was about 3d. to 4d. per lb. lower, 15 cases of Suzuki selling at from 3s. 8d. to 3s. 9d. per lb. without reserve, and for a case of Nagaoka 3s. 6d. was paid.

A further ten cases of Suzuki sold without reserve at 3s. 8d. MYRRH being scarce sold at higher prices. A case of good bright pea-size siftings realised 60s., three bales common dark siftings 55s., two cases small dusty 53s., and a case of dust went 45s. per cwt.

**ORANGE-PEEL.**—Five cases of ordinary dull thin so-called Maltese strip sold at 1s. 5d.

**POTASH CARBONATE.**—For a parcel of six casks Russian a bid of 95s. is to be submitted to the owner, the retail price being 105s. Teschemacher & Smith's analysis showed 86.30 per cent. carbonate of potash.

**QUILLARIA.**—A lot of 43 bags of cut sold at 53s. per cwt.

**RHUBARB.**—Quiet. Ten cases of medium to bold round horny High-dried with three-quarter fair pinky fracture sold at 8d. per lb., being cheap. Six cases Shensi sold without reserve at from 1s. 6d. to 1s. 8d. per lb., this including round and flat of various sizes, also pickings, which went at 1s. 3d. Privately sales of small to bold flat High-dried with three-quarters fair pinky fracture have been made at 1s. 5½d., and medium to bold round horny High-dried at 8½d. About twenty cases have been sold. Genuine Shensi was retired at from 2s. 3d. to 3s. per lb. London first-hand stock, at end of January 1917 was 997 cases, against 1,369 cases.

**SANDALWOOD OIL.**—Two cases containing five tins of 20 lb. each offered on behalf of the Mysore Government were limited at 50s. per lb. net.

**SARSAPARILLA.**—Dearer. No grey Jamaica offered as the stock has been cleared. Of Lima-Jamaica two bales offered and sold at 2s. per lb., being an advance of 3d. to 4d. on previous prices. Native Jamaica was neglected.

**SENNA.**—Quiet. The bulk of the offerings consisted of pods very little Tinnevely leaf being offered. A few bales of medium to bold greenish realised 5d. per lb. Good palish pods sold at 5d. to 5½d., and dark to fair at from 3d. to 4½d. per lb. London stock of all descriptions at end of January was 4,494 packages, against 1,654 in January 1916.

**SOY.**—A lot of 41 cases Tong-lee-Chan brand was retired at 2s. 9d. per gal., duty paid.

**TONKA-BEANS.**—Frosted Para were limited at from 1s. 10d. to 2s. A single box of red sold at 1s. 3d.

**WAX, BEES'.**—Jamaica sold at an advance of 20s. to 25s. per cwt. compared with the previous auction, seven packages realising from 9½ 10s. to 9½ 17s. 6d. for mostly fair red and brown mixed. A case of dark Dominican block sold at 8½ 10s., and for ten cases of fair bleached Calcutta 8½ 12s. 6d. was paid. Privately beeswax is in strong demand, and very scarce. The sales include good Mozambique at 9½ per cwt.

**WAX, CARNAUBA.**—A lot of 45 bags (in prize) sold at 160s. for fatty grey and 167s. 6d. for chalky grey.

**WAX, JAPANESE.**—Ten cases of yellowish slabs sold at 69s. 6d. to 71s. per cwt. without reserve, and for 25 cases of good white slabs the strict limit was 75s.

### Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date of December 9, 16, and 17:

**AGAR-AGAR.**—Only small quantities have arrived, and have been sold at m.40 and more per kilo. Lower quotations are not expected.

**ALBUMEN.**—Quotations are so extremely high that the demand has quite fallen off for both egg-albumen and dried egg-yolk.

**AMMON. CHLOR.**—Crystals for technical purposes remain very active, but makers can only supply a part of the demand. Second-hands have sold in large quantities at high prices. Makers sell technical at m.135 per 100 kilos.; second-hands' quotations are considerably higher. Sublimate is from m.175 to m.185 per 100 kilos.

**BALSAMS.**—Copaiba is a little firmer, and prices are advancing. Tolu is absolutely neglected.

**KATTRAH-GUM** is used in increasing quantities as surrogate for tragacanth, in consequence of the extremely high prices asked for Syrian and Anatolian tragacanth.

**LYCOPodium** has been in increased demand. The actual quotation is about m.12.50 per kilo.

**MENTHOL** is still offered at from m.60 to m.63 per kilo. The demand is only insignificant.

**QUILLARIA** is cheaper, though the prices are still too high to permit of ready sale.

**TARTARIC ACID.**—All quantities offered are sold immediately; makers cannot quote at present.

**THYMOL** is still quoted at m.80 per kilo.

**TONKA BEANS** are in more active demand, and prices are higher.

**VALERIAN** is in very active demand; since the last quotation prices have advanced by from 10 to 15 per cent.

**VANILLIN** meets with renewed interest, though only small quantities are obtainable at high prices. From the makers it is not obtainable. Second-hands are selling at m.195 per kilo.

**WAXES.**—Bees' is lower, as the demand has entirely fallen off. For Carnauba, too, the demand has much diminished. Japanese fails completely. Crude montan-wax is still to be had in small quantities in the open market.





Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

#### Early-closing.

SIR,—Seeing that the compulsory closing of retail shops has worked so very satisfactorily both to the majority of the purchasing public, and very particularly to the comfort and rest of the hard-worked retailers, we are strongly of the opinion that the present system should be continued through the summer as well as the winter months.

Yours faithfully,

For the Manchester Branch of the Pharmacy and  
Drug Stores Association, Ltd.,

A. W. BALSHAW,  
Hon. Secretary.

#### Storax Stocks.

SIR,—Our attention having been called to your article on page 43 of THE CHEMIST AND DRUGGIST of February 3, in which the statement is made that the manufacture of tinct. benz. co., B.P., from the official formula is at a standstill, so that friar's balsam will be manufactured without the storax, we wish to state that so far as the B.D.H. is concerned this statement does not apply. We have secured sufficient stocks of genuine high-testing storax—B.P. quality—to enable us to fulfil all anticipated requirements of tinct. benz. co., B.P. 1914, and do not contemplate having to “modify” the formula of this preparation.

Yours faithfully,

For The British Drug Houses, Ltd.,

CHARLES ALEX. HILL,  
Managing Director.

#### After Fifty Years

SIR,—From a circular letter received from the President of the Pharmaceutical Society, I learn that an effort is to be made to secure a seat in Parliament for the present Secretary and Registrar of this Society. How this would work or become beneficial on behalf of the members is rather obscure. We have all been obliged by what our good friend Mr. Glyn-Jones has done or tried to do. In the past, with all the money which has been raised and the efforts made, very little benefit has resulted to the members, to whose interests the Council have refused to give a thought, in so far that such as had not tabled their 10l. 10s. when elected were obliged to pay the usual guinea and continue this till 50l. and more has been contributed, while the cry is still, “Pay, pay.” All the while it must be recollected that for this the members, so far as their business is concerned, have not had the least advantage. I am old enough to recollect what the business of a chemist was formerly. Then it was possible to make a fair income free and untrammelled. No doubt, if what was proclaimed as the expected result of the 1863 Pharmacy Act had been secured it would have been better, yet we cannot forget that it was due to the leading men residing in London who founded the Pharmaceutical Society, desiring to secure benefits for relatives who were unqualified, that the members have suffered so severely, while out of the blunders caused by their advisers not being able to foresee arose the difficulty in which we were landed. Had our Council applied some thousands of pounds in advertising so as to inform the public that the members of this Society were more deserving of public patronage than the various tradesmen who flourish before the public as managers of drug establishments, some good might have resulted, rather than spending our money in the way they have done, particularly in the extravagant premises in Bloomsbury Square, which have to be kept up for the officials. I had once some thought of contesting a county seat for Parliament, and refused an uncontested one in my time. But were I in such a position now it is more likely I would have to support a Bill for the abolition of all Acts relating to pharmacy, thus supporting the ideas of my worthy old friend Mr. Daniel Frazer, of Glasgow, who believed in “Free Trade” in drugs. In former times each chemist was held by the public to possess his own specific gravity, while the public interests were carefully looked after. At the present time I am much inclined to withdraw from the membership of the Pharmaceutical Society after having contributed more than 50l. for this, and more money still being wanted.

Yours faithfully,

Edinburgh.

JAMES MACKENZIE.

## Legal and Miscellaneous Queries.

*Resorcin* (52/71).—We dealt with the subject of poisoning birds in our issue of November 18, 1916, p. 45.

*B. R.* (207/23).—The proper plan to cover the rights in a fancy name for a toilet-preparation is to register the name, if it is registrable, as a trade-mark. Full particulars in regard to this you will find in the *C. & D. Diary*, p. 220.

*J. B.* (200/51).—SICKNESS AND VOMITING during the early months of pregnancy is quite a common condition and difficult to treat. Twenty grains of sodium bicarbonate with tr. card. co. three times a day before meals, with the addition of a little bromide, may be tried.

*F. W.* (206/1).—Your children's cough-mixture is liable to medicine stamp-duty on account of the title and the phrase in the directions, “when the cough is troublesome.” As a registered chemist you are entitled to sell the preparation as a known, admitted, and approved remedy, as to which see *C. & D. Diary*, p. 364, “exemptions.”

*Anticipation* (206/71).—As your liniment is an entire drug it is exempt from medicine stamp-duty. We notice that your blood-purifier label bears the number of a published formula, and if this is correct the mixture is exempt from stamp-duty as a known, admitted, and approved remedy when sold by an exempted person, such as a chemist.

*S. W. V.* (201/13).—DIPPING-ACID used by brassworkers is as follows:

Sulphuric acid	...	...	...	4 parts
Nitric acid	...	...	...	2 parts
Water	...	...	...	2 parts

This is used when cold in the open air. The articles are dipped in the acid and then plunged into water.

*J. M. W.* (209/31).—The following is the formula for PEROXIDE CREAM given in “Pharmaceutical Formulas,” p. 842:

Stearic acid	...	...	...	3ij.
Sodium carbonate	...	...	...	3iiss.
Anhydrous wool-fat	...	...	...	3iv.
Glycerin	...	...	...	3ij.
Borax	...	...	...	3j.
Solution of hydrogen peroxide	...	...	...	3ss.
Water	...	...	...	3xvj.
Perfume	...	...	...	a sufficiency

Prepare the mass s.a., and when it begins to set add the hydrogen peroxide.

*Thyroid* (208/70) asks if a L.R.C.P. & S., Edin., can legally keep open a medical hall for retailing of poisons and compounding of medicines in Ireland either with or without a qualified chemist; also if the Local Government Board will permit such a person to hold the position of M.O. to a Union. [Section 30 of the Pharmacy Act, 1875, provides that a legally qualified medical practitioner is exempt from the penalty imposed by the section on persons who unlawfully “sell or keep open shop for retailing, dispensing, or compounding poisons.” This is short of the provision in respect to pharmaceutical chemists and apothecaries—viz., “Keeping open shop for the retailing, dispensing, or compounding poisons or medical prescriptions” (Section 21), the result being that a medical practitioner who is not a pharmaceutical chemist or an apothecary cannot compound all medical prescriptions, but he may keep open shop in accordance with Section 30. We are not aware of anything to prevent the L.G.B. appointing such a person as medical officer.]

## Retrospect of Fifty Years Ago.

Reprinted from “The Chemist and Druggist,” Feb. 15, 1867.

### The Chemists' Ball.

The ball at Willis's Rooms, on the 30th ult., was a grand demonstration of unanimity on the important subject of recreation. Everybody appeared to be thoroughly happy, and the hours flew by with bewildering rapidity. Two hundred and forty-seven ladies and gentlemen were actually present. Although the arrangements were made upon the most liberal scale, the stewards were enabled to hand over to the Benevolent Fund of the Pharmaceutical Society the surplus of 29l. 4s. 7d.



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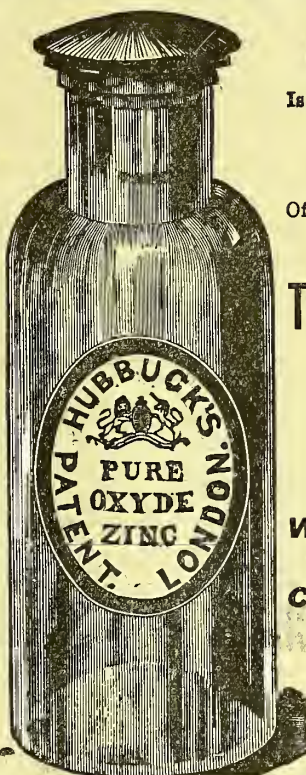
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**A** cetanilide, B.P., 1 lb. @ 3/8 lb.; 7 lbs. @ 3/4 lb.; powder, 1d. lb. extra.  
 \*Acet. Ipecac., B.P., 6 lbs. @ 1/10 lb.  
 „ Scilla, P.B., 6 lbs. @ 5d. lb.  
 \*Acid. Acet. Glacial., 99%, 6 lbs. @ 2/9 lb.  
 „ Acetylo-Salicyl. 1 lb. @ 21/- lb.  
 „ Benz., B.P., 7 lbs. @ 30/- lb.; 1 lb. @ 31/- lb.  
 „ Boric Pulv., 3 cwt. @ 62/9 cwt.; 1 cwt. @ 63/9 cwt.; leviged. cwt. or lb. extra.  
 „ Carbol. Xts., 39/40; 56 lb. drums @ 1/11 lb.; 121-lb. Bots. @ 2/3 lb.; Single Bots. @ 2/6 lb.; Detached Cryst. 1 lb. @ 2/8 lb.; Crude Black, 45 gall. casks @ 1/1 gall.; 5 gall. drums @ 1/8 gall.; 1 gall. tins @ 2/6 each.  
 „ Citric. cryst., B.P., 85, 7 lbs. in bags @ 2/10 lb.; powder, 1d. lb. extra.  
 „ Diethylbarbituric, 1 oz. @ 8/- oz.  
 „ Gallic, pur., P.B., 7 lbs. @ 6/9 lb.; 1 lb. @ 7/- lb.  
 „ Hydrobrom., 6 lbs. @ 1/10 lb.  
 „ Hydrochlor. Coml., cases of 4 2-eal. jars, 28/6 each; 20 car. lots @ 27/6 each.  
 „ Hydrocyan. P.B., 6 lbs. @ 1/7 lb.; 1 lb. @ 2/- lb.; 36 1-oz. Vials @ 7/6 doz.  
 „ Oxalic Cryst., 1 cwt. @ 1/10 lb.; 14 lbs. @ 2/- lb.  
 „ Phosph. Dil. B.P., 6 lbs. @ 6d. lb.  
 „ Salicyl. pulv. 1 lb. @ 6/- lb.  
 „ Sulphur, Coml., cases, 4 2-gal. jars @ 36/- each; 20 cases @ 35/- each.  
 „ Sulph. Aromat. B.P., 5 lbs. @ 4/4 lb.  
 „ Tannic, B.P., 1 lb. @ 6/6 lb.  
 „ Tart., cryst. or pulv. B.P., 1885, 7 lbs. @ 2/9 lb.; parv. 4d. lb. extra.  
**A** depe Benz., B.P., 28 lbs. @ 1/1 1/2 lb.; 7 lbs. @ 1/2 1/2 lb.  
**E** ruco. Aris Pulv., 14 lbs. @ 1/5 lb.  
**A** loes Barb., English-ground, 28 lbs. @ 120/- cwt.; 7 lbs. @ 1/3 lb.  
**A** loes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/6 lb.  
**A** loin, B.P., 1 lb. @ 5/6 lb.  
**A** mmon. Benz., 7 lbs. @ 26/- lb.; 1 lb. @ 27/- lb.  
**A** mmon. Brom. P.B., 7 lbs. @ 6/6 lb.  
**A** mmon. Carb. lump, 3 cwt. @ 7 1/2 d. lb.; 28 lbs. @ 8 1/2 d. lb.; 7 lbs. @ 9d. lb.; powder, 1d. lb. extra.  
**A** mmon. Chlor., 99% pulv., 1 cwt. @ 59/- cwt.; 7 lbs. @ 7 1/2 d. lb.; Batteries, 6/- cwt. extra.  
**A** myll Pulv., 10 cwt. @ 29/- cwt.; 2 1/2 cwt. @ 30/6 cwt.; 1 cwt. @ 32/6 cwt.  
**A** nised, English ground, 1 cwt. @ 103/- cwt.; 7 lbs. @ 11 1/2 d. lb.  
**A** ntim. Nig. Pulv., 7 lbs. @ 10d. lb.  
**A** ntim. Tart. Pulv., 7 lbs. @ 3/- lb.  
**A** plot, 1 lb. @ 27/6 lb.  
 \***A** qua Anethl Conc. 1-40, 1 lb. @ 3/8 lb.  
 „ Anisl Conc. 1-40, 1 lb. @ 3/8 lb.  
 „ Aurant. Conc. 1-40, 1 lb. @ 6/11 lb.  
 „ Aurant. Trip., 6 lbs. @ 8d. lb.; 53 lbs. for 23/-  
 „ Cinna. Conc. 1-40, 1 lb. @ 4/1 lb.  
 „ Laurocerasl, 6 lbs. @ 8d. lb.  
 „ Menth. Pip. Conc., 1-40, 1 lb. @ 3/9 lb.  
 „ Rosae Conc. 1-40, 1 lb. @ 7/9 lb.  
 „ Rosae Trip., 53 lbs. for 25/-; 6 lbs. @ 8d. lb.  
 „ Samb. Conc., 1-40, 1 lb. @ 6/11 lb.  
 „ Samb. Trip., 6 lbs. @ 8d. lb.  
**A** saroba, fine powder, 7 lbs. @ 9/- lb.; 1 lb. @ 9/6 lb.

**A** rgent. Nit., 6's to oz., 25 oz. @ 2/6 1/2 oz.; 1 oz. @ 2/7 1/2 oz.  
**A** rgent. Nit., Cryst., 25 oz. @ 2/5 oz.; 8 oz. @ 2/6 oz.  
**A** rsenic. Alb. Pulv., 2 cwt. @ 45/- cwt.; 7 lbs. @ 5 1/2 d. lb.  
**A** tropinae Sulph., P.B., 1 oz. @ 125/- oz.  
**A** uri Chlor., 6 doz. 15 gr. tubes @ 22/6 doz.; 1 doz. 15 gr. tubes @ 22/9 doz.  
**B** als. Copaiba, pure, 44 lbs. @ 3/11 lb.; 9 lbs. @ 4/2 lb.; 1 lb. @ 4/6  
 „ Peruv., P.B., 1 lb. @ 18/- lb.  
 „ Sulphur, 7 lbs. @ 1/- lb.  
 „ Tolut. B.P., 50 lbs. @ 1/10 1/2 lb.; 1 lb. @ 2/4 lb.  
**B** lismuth, P.B., Carb., 3 lbs. @ 13/6 lb.; 1 lb. @ 14/- lb.; subnit., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.  
 „ Salicyl., 1 lb. @ 23/- lb.  
**B** oracic Mixture, 1 cwt. @ 85/- cwt.  
**B** orax, 1 cwt. @ 38/6; powder 1/- extra.  
**B** utyl-Chloral Hydras., P.B., 1 lb. @ 1 lb.  
**C** affeine, P.B., 1 lb. @ 48/- lb.  
 „ Caffeinae Cit., B.P., 1 lb. @ 32/- lb.  
**C** alamina, powder, fine pink, 5 cwt. @ 25/- cwt.; 1 cwt. @ 28 cwt.; 7 lbs. @ 4d. lb.  
**C** alamine, B.P., 1885, 7 lbs. @ 1/3 lb.  
**C** alci Carb. Præcip., 5 cwt. @ 18/6 cwt.; 1 cwt. @ 23/- cwt.; 28 lbs. @ 27/6 cwt.  
 „ Hydras., P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.  
 „ Hypophosph. Pur., P.B., 1 lb. @ 4/- lb.  
 „ Iodid., 1 lb. @ 21/6 lb.  
**C** amphor, English Flowers, "not artificial," 5 lbs. @ 3/2 lb.; 1/2 oz. or 1/4 oz. 7 lbs. @ 3/10 lb.; good white, about 95% as imported, 140 lbs. @ 1/11 lb.; 28 lbs. @ 2/2 lb.  
**C** apsaline, soluble, 1 lb. @ 9/6 lb.  
**C** arbo Animalis or Lignl, powder or lump, 1 cwt. @ 25/- cwt.; 28 lbs. @ 3 1/2 d. lb.  
**C** ardamoms, 28 lbs. @ 2/6 lb.; 7 lbs. @ 3/- lb.  
**C** armine, Finest, 1 lb. @ 35/- lb.; No. 2, 1 lb. @ 1 lb.  
**C** esa Alba, B.P., White Moons, 28 lbs. @ 2/2 lb.; 4 lbs. @ 2/4 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 1/9 1/2 lb.; 4 lbs. @ 1/10 1/2 lb.; 1 oz., 1/2 oz. tabs., 7 lbs. @ 1/10 1/2 lb.  
**C** eril Oxalas., 1 lb. @ 6/6 lb.  
**C** etaceum, No. 1, fine white, 64 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.; powder, 7 lbs. @ 1/6 lb.  
**C** hloral Hydras Cryst., B.P., 7 lbs. @ 10/9 lb.; 1 lb. @ 11/3 lb.  
**C** hlorodyne, 5 lbs. @ 2/7 lb.  
**C** hloroform, pure, B.P., 12 8-lbs. @ 3/7 lb.; 8 lbs. @ 3/9 lb.; 6 1-lb. bots. @ 4/2 lb.  
**C** ocaine Hydrochlor., 1 oz. @ 26/6  
**C** odelua, 1 oz. @ 23/6 oz.; Phosph., 1 oz. @ 19/6 oz.; Hydrochlor. or Sulph., 1 oz. @ 20/6 oz.  
**C** ocolynth, Apple, English ground, 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/5 lb.; 7 lbs. @ 1/7 lb.  
**C** omposition Powder (Coffin's), 1 cwt. @ 62/- cwt.; 7 lbs. @ 8d. lb.  
**C** onf. Sennae, P.B., 14 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.  
**C** ort. Aurant. Exot. Shreds, 7 lbs. @ 2/4 lb.  
 „ Cinchon. Rub. (Quill), 7 lbs. @ 1/7 lb.  
 „ Ulmi Pulv., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/1 lb.  
**C** ream of Tartar, 98% powder, 1 cwt. @ 192/- cwt.; 7 lbs. @ 1/10 lb.

**C** reasote, Beechwood, P.B., 7 lbs. @ 14/6 lb.; Creta c. Camph., 7 lbs. @ 10d. lb.  
 „ Gall. Pulv., in sacks, 10 cwt. @ 10/- cwt.; 1 cwt. @ 12/- cwt.; 14 lbs. @ 1 1/2 d. lb.  
 „ Præparata, 7 lbs. in box @ 1/3 each.  
**C** ubeba, English Ground, 28 lbs. @ 2/6 lb.; 7 lbs. @ 2/8 lb.  
**D** ec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/1 lb.; Sinecroco, 6 lbs. @ 1/4 lb.  
 „ Cinchonae (Rubra) Conc., 1-7, 6 lbs. @ 2/3 lb.  
 „ Senegae Conc., 6 lbs. @ 2/11 lb.  
**E** mp. Spread, 12 yards x 16 ins. adhesive, 6/-; Bellad. B.P.C., Green @ 28/6; Cerat. Saponis @ 12/4; Picis Co. @ 12/4; Plumbi @ 10/-; Resinae @ 7/6; Roborans @ 11/6; Saponis, B.P., @ 10/-  
**E** mp. Picis, P.B., 7 lbs. @ 1/1 lb.  
 „ Plumbi, P.B., 7 lbs. @ 1/1 lb.  
 „ Resinae, P.B., 7 lbs. @ 1/1 lb.  
 „ Roborans, 7 lbs. @ 1/1 lb.  
**E** mulsio Ol. Morrhuæ, 5 lbs. @ 1/6 lb.  
**E** serine Sulph., in 15-grain tubes, 8/3 each;  
**E** ss. Bergam. (Oil), 12 lbs. @ 21/- lb.; 1 lb. @ 22/- lb.; not guaranteed absolutely pure.  
**E** ss. Limons (oil) original copper, 12 lbs. @ 4/3 lb.; 6 1-lb. bots. @ 4/9 lb.; not guaranteed absolutely pure.  
**E** ss. Moschi (not artificial), 5 lbs. @ 14/6 lb.; 1 lb. @ 15/- lb.  
**E** ss. Pear (artificial), Jargonelle, 5 lbs. @ 3/9 lb.; Bergamot, 4/3 lb.  
**E** ss. Pineapple, 5 lbs. @ 4/- lb.  
 „ Raspberry, 5 lbs. @ 2/8 lb.; 1 lb. @ 8/- lb.  
 „ Vanilla Beans, 5 lbs. @ 4/6 lb.; 1 lb. @ 4/9 lb.  
**E** xt. Belladonnae Liq., B.P., 5 lbs. @ 19/- lb.; 1 lb. @ 19/6 lb.; solid, 7 lbs. @ 11/- lb.  
**E** xt. Cannab. Ind., Alc., B.P., 1 lb. @ 63/- lb.  
**E** xt. Cascara Sag. Liq., B.P., 1 cwt. @ 1/10 lb.; 10 lbs. @ 2 0/2 lb.  
**E** xt. Ergot. Liq. P.B., 5 lbs. @ 4/10 lb.; 1 lb. @ 5/4 lb.; Solid, P.B., 4 lbs. @ 20/- lb.; 1 lb. @ 21/- lb.  
**E** xt. Gent., P.B., solid, 1 cwt. @ 2/5 lb.; 7 lbs. @ 2/8 lb.  
**E** xt. Glycyrrh. Liq., B.P., 6 lbs. @ 2/10 lb.  
**E** xt. Hamamelis Liq., P.B., 5 lbs. @ 4/1 lb.  
**E** xt. Hyoscyam., Solid, B.P., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.  
**E** xt. Ipecac. Liq., P.B., 5 lbs. @ 17/6 lb.; 1 lb. @ 18/- lb.  
**E** xt. Malti c. Ol. Jecoris, 10 lbs. @ 11d. lb.  
**E** xt. Nucis Vom. Liq., P.B., 5 lbs. @ 4/6 lb.; 1 lb. @ 4/9 lb.; solid, 5 lbs. @ 4/6 lb.; 1 lb. @ 5/- lb.  
**E** xt. Opil Solid, P.B., 1 lb. @ 80/- lb.  
**E** xt. Opil Liq., B.P., 5 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.  
**E** xt. Quassia, Solid, 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.  
**E** xt. Sarsae Co. Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.  
**F** erri Ammon. Cit., P.B., 28 lbs. @ 3/- lb.; 7 lbs. @ 3/2 lb.  
**F** erri Carb., 14 lbs. @ 6d. lb.  
**F** erri et Quininae Cit., P.B., 100 oss. @ 11 1/2 d. oz. 25 oss. @ 1/- oz.  
**F** erri Sulph., pure cryst., 1 cwt. @ 7 lbs. @ 3 1/2 d. lb.  
**F** errum Redact., 80%, 1 lb. @ 7/10.  
**F** lor. Anth. Exot., 7 lbs. @ 3/9 lb.  
**F** ol. Buchu, oval, 7 lbs. @ 4/- lb.  
**F** ol. Sennae Alex. parv., 28 lbs. @ 1/1 lb.

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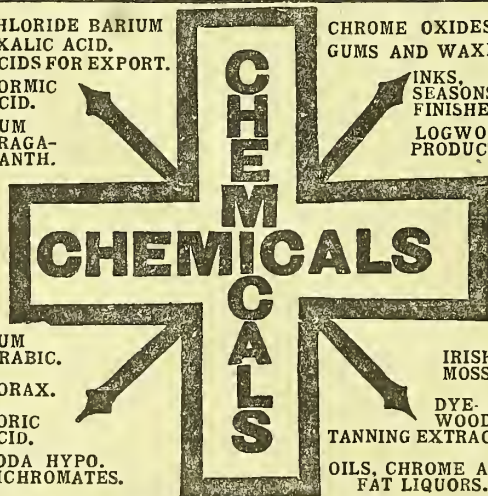
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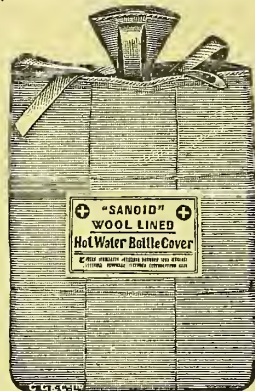


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RETAIN THE HEAT



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GIVE SATISFACTION  
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IN THREE COLOURS, PINK, RED AND BLUE.

8x6	10x6	10x8	12x6	12x8	12x10	14x8	14x10	14x12
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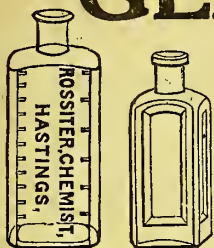
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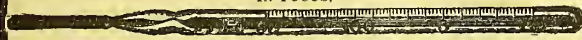
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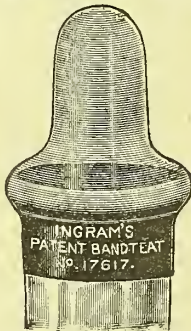
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*Agrippa*

PATENT No 17617

BAND TEAT &amp; VALVE

(BRITISH MADE BY BRITISH LABOUR)



"AGRIPPA" Band Teat (Black or Transparent Rubber).

The  
Nearest Copy  
to the  
Natural Nipple

(Note the patent band around the teat that grips tightly to the neck of the bottle.)

The "AGRIPPA" Band Teat will fit any boat-shape feeding bottle, and will not slip off.

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SHOWS A GOOD PROFIT.

**"Railox" Soldier's Wallet (speciality).**

The Best, Cleanest & Handiest  
LICE KILLER. Price 6d. each.

PRICE LIST. 6d. lines 4/- doz.

2d. lines	3 doz. 4/- 6 " 7/- 12 " 13/-	Discount.		13 to doz. for cash with order. All goods carr. paid.
		£1 ...	2½ %	
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INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A. Protected Dozen  
Retail Price. Net.

* LOSALL'S SALT (well advertised), tins	7½ d.	5/-
" " " " " "	1/2	10/-
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Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema } 1/6 12/-

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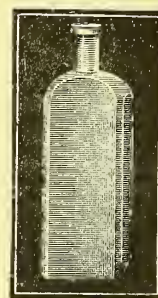
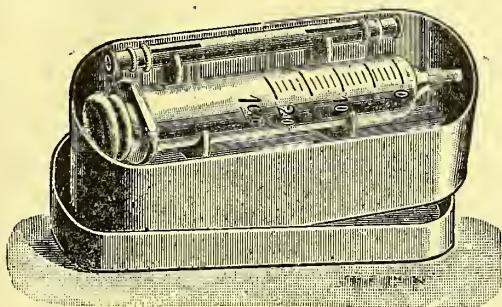
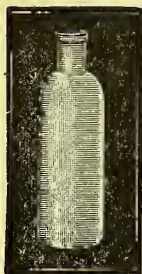
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Tubes. **TEST TUBES, BEAKERS, HYPO-  
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**EAR** Syringes with **RUBBER** plunger;  
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Screw Honey Jars,  $\frac{1}{4}$ ,  $\frac{1}{2}$  and 1 lb. Oval  
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assortment of about  $\frac{1}{2}$  to 2 oz. Stoppered  
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*Made in Two Weights, but One Quality only—the Best.*

**GUARANTEED FOR 2 YEARS.**

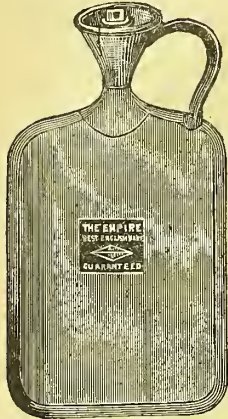


FIG. 957.—Side Handle.

Top, or side handle	Sizes	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14
		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Heavy weight ... .. each		3 2	3 5	3 8	3 11	4 3	4 10	5 2	5 9
Light " " " " " " "		3 0	3 3	3 6	3 9	4 0	4 6	4 9	5 3
Covers, scarlet or grey plush " "		0 9	0 9	0 11	0 11	1 1	1 3	1 5	1 7

N.B.—The metal collar in both heavy and light Bottles is **vulcanised into the rubber neck**, thus making it practically one solid piece and doing away with all possibility of leakage.

5 % discount allowed for prompt cash off above prices. Carriage paid on Orders of £2 and upwards to any town in the United Kingdom.

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OUR GOODS ARE RIGHT.

MONEY BACK IF NOT SATISFIED.

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Best English Teats, Transparent, 1/6 dozen, 16/6 gross lots.  
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### CORKS

Finest White, "without spot or blemish." Four sizes (up to 8 oz.), in separate 6-gross bags, one size in a bag. 5/- per bag, 5/6 post free.

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BEST SHEFFIELD MAKE  
CHAMOIS-LINED  
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Single, 2/-; Double, 3/-

ALL THE ABOVE CAN BE DELIVERED  
IMMEDIATELY FROM STOCK.

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Gives a full and stronger injection than can be produced by any other spray, consequently its cleansing facilities give comfort and satisfaction.

MADE OF HIGH GRADE QUALITY RUBBER.

CONSTRUCTED UPON SCIENTIFIC PRINCIPLES.

On the P.A.T.A. List.

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Minimum Retail Price—**10/- each.**



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## SPECIALITIES FOR WINTER.

SURGICAL ELASTIC HOSE, TRUSSES, SUSPENDERS, BRACES, LADIES' & GENTLEMEN'S BELTS for SUPPORT and WARMTH made in Fleecy, Felt, and Chamois, etc.

CHEST PROTECTORS and SLEEPING SOCKS, ELASTIC and LEATHER WRISTLETS, ARM PIECES, ELBOW PIECES and KNEE CAPS for Football, Golf and Hockey.

DRUGGISTS' SUNDRIES, INDIA RUBBER HOT WATER BOTTLES and COVERS, ELASTIC WEB BANDAGES, all lengths, widths and qualities.

LOWEST QUOTATIONS AND SAMPLES ON REQUEST.

ESTABLISHED 1847.

# Allcock's PLASTERS

REMEDY OF 60 YEARS' STANDING.

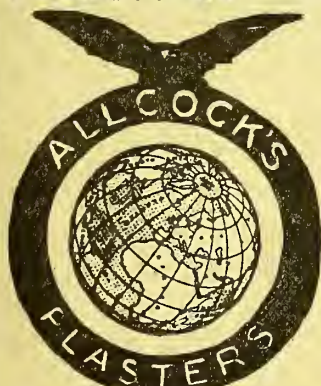
Allcock's Plasters  
Allcock's Corn and  
Bunion Plasters  
Brandreth's Pills

The  
Three  
Reliables.

Prices and Terms  
on  
application to

ALLCOCK  
MANUFACTURING  
COMPANY

22 Hamilton Sq.,  
Birkenhead.



"Sold all round the World."

To please a customer is to increase sales.

# Sphagnol

The quickest and most effective remedy for all forms of SKIN DISEASES & IRRITATIONS, INSECT BITES, HAEMORRHOIDS, etc.

# Sphagnol

SOAPS and OINTMENT have been awarded the INSTITUTE of HYGIENE'S Certificate for PURITY, QUALITY & MERIT.

Chemists are invited to make a personal test. Free samples sent on application.

PEAT PRODUCTS (SPHAGNOL) Ltd.  
19 Queenhithe, Upper Thames Street, LONDON.



BRITISH MANUFACTURE

SPECIAL PATTERNS  
FOR ANILINE DYES

## THE "VENESTA" WAY

Wastage, leakage and damage in transit—claims on Railway and Steamship Companies in consequence—loss from goods spoiled or deteriorated by the action of air and water, these disadvantages are all obviated by using

## "VENESTA" KEGS

LIGHT — STRONG — WATERPROOF

In addition they will save you money on actual Freight and Rail Charges by reason of their lightness and compactness.

The reason of this lightness and compactness is that they are made from "Venesta" Patent Waterproof Plywood.

## VENESTA LTD.

1 Great Tower Street, LONDON, E.C.

Manufacturers, under the "Venesta" Patents, of boxes, cases and trays of all descriptions for home and export.

VI

.. FINE ART ..  
PRINTING

**I**F YOU require EFFECTIVE DESIGNS for LABELS, CARTONS, WRAPPERS, ENVELOPES, &c. &c., PLATE WORK, Letterpress or Lithographed in Colours, apply to —

**JAMES F. WILKINSON**

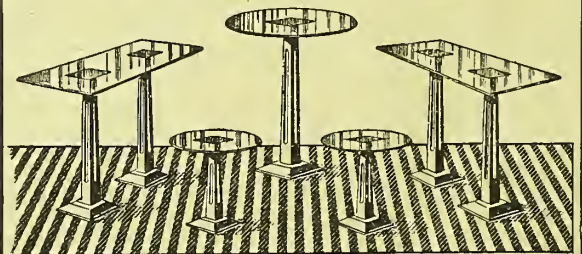
Specialist in Printing  
for the Drug Trade,  
PENDLETON, MANCHESTER.

Established 1817.

## "Open" Window Dressing

With Solid Polished  
Oak Pedestals and  
Plate Glass Shelves

Enables you to dress  
your window quicker,  
and make a different  
style of display each  
week.



## THE SET DEPICTED CONSISTS OF

2 12-in. Oak Pedestals, No. SF 1024	1/8 each.
4 24-in. " " No. SF 1024	3/- "
1 30-in. " " No. SF 1024	3/6 "
2 Oval Plate Glass Shelves, 15 by 10	4/6 "
1 " " Shelf, 18 by 12	5/9 "
2 Oblong Plate Glass Shelves, 36 by 12	7/11 "

**The Lot Complete for 49/-**

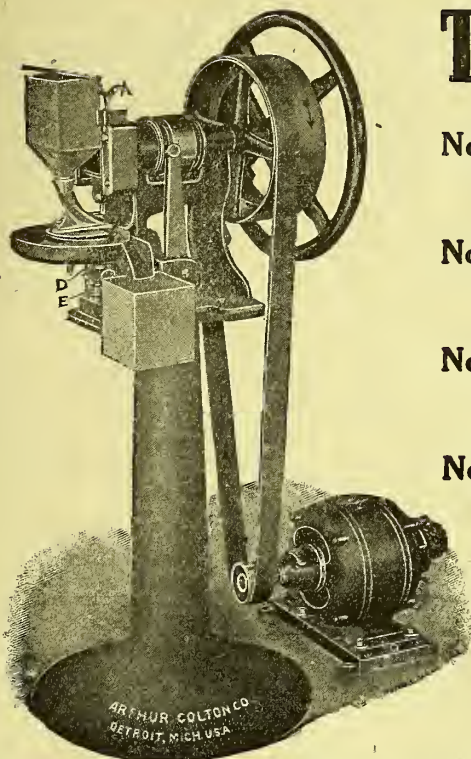
Or any of the above articles supplied  
separately at prices quoted.

"Black and White" Striped Paper, No. D 3010,  
in rolls, 22-in. wide, about 12 yds. long, 2/4 per roll.

**DUDLEY AND COMPANY** - Shopfitters,  
451, 550, and 558 Holloway Rd., London, N.



# TABLET MACHINES



**No. 2B MACHINE** for tablets  $\frac{1}{8}$  in. to  $\frac{1}{2}$  in. diameter, including 3 sets of punches and dies.

(This machine has a capacity of 125 tablets per minute.)

**No. 3B MACHINE** for tablets  $\frac{7}{32}$  in. to  $\frac{5}{8}$  in. diameter, including 3 sets of punches and dies.

(This machine has a capacity of 100 tablets per minute.)

**No. 4 MACHINE** for tablets  $\frac{1}{2}$  in. to  $\frac{3}{4}$  in. diameter, including 1 set of punches and die.

A massive machine of great power. (Capacity 90 tablets per minute.)

**No. 5 MACHINE** for tablets up to 2 in. diameter, including 1 set of punches and die.

A still heavier machine than No. 4. (Capacity 50 tablets per minute.)

**Complete Pill Making Plants.**

**Gelatine Coaters.**

**Collapsible Tube Filling and Closing Machines.**

**JOHN J. GRIFFIN & SONS, LTD.,**  
Kingsway, London, W.C.

## CHEMICAL PLANT

FOR NEARLY ALL INDUSTRIES IN  
STEEL, CAST IRON, BRONZE  
AND SPECIAL ALLOYS

OR  
**TANTIRON**

ORGANIC & SYNTHETIC PRODUCTS,  
SALICYLIC ACID & SULPHONATED,  
CHLORINATED & ACETYLATED COMPOUNDS.  
PLANTS FOR NITRIC, SULPHURIC &  
HYDROCHLORIC ACID.

**LENNOX FOUNDRY CO., LTD.**

GLENVILLE GROVE, NEW CROSS,  
LONDON, S.E.

Telegrams: "Equifex Dept., London." Telephone: New Cross 770.

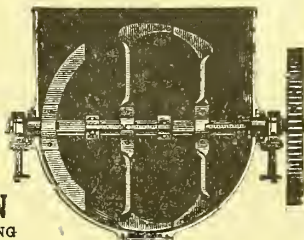
HAVE YOU RECEIVED OUR  
**NEW CATALOGUE**  
OF BOTTLING, TUBE- &  
TIN-FILLING MACHINES,  
MIXERS, EMULSIFIERS,  
ETC.

*Up-to-date Plant at Low prices.  
Something to meet every need.*

WRITE—  
**ROBERTS' PATENT FILLING MACHINE CO.,**  
33 ROUNDCROFT STREET, BOLTON, ENGLAND.

## NEW PATENT MIXING MACHINE

Automatic  
Self-Cleaning.  
Lowest Possible  
Driving Power.  
Lightning Mixing.  
Rapid Exhaust.  
All sizes, to mix from  
2 lbs. up to 6 tons.



**W. ROWLANDSON  
& CO.,** MIXING & GRINDING  
SPECIALISTS,  
BOUNDARY ST., LIVERPOOL.

Sectional Side View.



**FREDK. FINK & CO.,**

10 &amp; 11 MINCING LANE, LONDON, E.C.

**SPECIALITIES.**—Gums Arabic and Tragacanth as imported or finely powdered.**E. CRAWSHAW & CO.,**

56 Great Dover Street, S.E.

**ANILINE DYE MERCHANTS,**

are still selling their well-known Aniline Dyes to retail in Penny Packets.

Telephone: Hop 4992. Teleg. Address: "Cachous London."

**DISINFECTANTS**

OF ALL KINDS

Cheapest Makers of Co-efficient Acids and Fluids.

**HENRY ELLISON, LTD., CLECKHEATON, YORKS**

British-made

**ANILINE DYES**

FOR FOOD STUFFS, ETC.

Lowest Prices for Egg Yellow, etc.

**J. & T. HOYLE & CO.,**

312 Deansgate, Manchester.

**LUMINOUS PAINT**

(Dr. BALMAIN'S)

AS SUPPLIED TO H. M. GOVERNMENT.

NEW DEPARTMENT OF LUMINOUS PAINTED ARTICLES.  
GOOD SELLING LINES FOR CHEMISTS.**W. C. HORNE,** Luminous Paint and  
Radio-Active Compounds,  
NORTH CHEAM, SURREY, ENGLAND.**S.V.M. WINES FOR CHEMISTS. S.V.R.****A. MACNAIR & CO.** Dolphin Distillery  
Ardwick, MANCHESTER**TOBACCOS ! CIGARS ! CIGARETTES !**

Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods &amp; Shop Fittings. The Trade only supplied Opening orders a Speciality. Send for Price List.

**SINGLETON & COLE, LTD., Cannon Street, BIRMINGHAM AND BRANCHES.****Van Horn and Sawtell**

—LONDON AND NEW YORK— MAKERS OF

**"K-Y" LUBRICATING JELLY**

IN COLLAPSIBLE TUBES AND OF

**"Van Horn" Sterile Sutures and Ligatures**

IN GLASS TUBES — PRICES ON APPLICATION

31-33 HIGH HOLBORN, W.C.

**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense.

APPLY TO

**AUG. LEVERMORE & CO. Ltd.,** 8-10 Ct. St. Helens,  
LONDON, E.C.

Telegrams: "LEVERMORE LONDON." Telephone 4613 Central

**SHAVING STICKS**

6d. "THE FLAG," Cartoned, 3/- doz., 33/- gross.

6d. "CREAM OF ROSES," Decorated Tin in four colours, Rose design on Cream ground, 4/2 doz., 48/- gross.

1/- ALUMINIUM HOLDER, 7/6 doz. and bonns 2.

Sample of each for stamps 1/3.

**G. A. STOKES & CO. Ltd.,** 31/35 Lower Castle Street, BRISTOL.**SURGICAL RUBBER & VULCANITE Goods**

of every description.

Douche Fittings,  
Douche Tubing,  
Syringes,  
Teats, &c.**HIGGIN, Ltd.**  
265 DEANSATE,  
Manchester.**HOT-WATER BOTTLES**

BEST ENGLISH MAKE

**JAMES TOMPKINS LIMITED**ALL KINDS OF  
SURGICAL RUBBER GOODS.ESTAB  
1877Rubber Manufacturers,  
386, City Rd., London E.C.**JOHN E. RAWORTH**

CHARTERED PATENT AGENT,

**PATENTS, TRADE MARKS AND DESIGNS.**THE  
OLD MANSION HOUSE, and QUEEN ANNE'S CHAMBERS,  
73 Cheapside, E.C. WESTMINSTER, S.W.**Hot Water Bottles**

BEST ENGLISH MAKE. HEAVY WEIGHT.

Send for Prices to

**GALEN MANFG. CO., LTD.,**

Wilson Street, New Cross, London, S.E.

**CACHETS "FINOT"**

(White or Coloured).

With inscriptions in any desired tint; also Plain or Embossed.

"Beautifully made, and the inscriptions give them a distinction all their own."—C. &amp; D.

"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia and other powders.  
**COOPER, SON & CO., Ltd.,** 80 Gloucester Road, SOUTH KENSINGTON.  
In 17 Sizes, to fit the various types of Cachet Machines.Precipitated Chalk, Hyposulphite of Soda,  
Sulphite of Soda, Glauber Salts, Epsom Salts,  
Salts of Tartar, Alum, Sulphite of Lime,  
Sulphide of Sodium.**E. BRAMWELL & SON, Ltd., ST. HELENS, Lancs.**





## SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses!

**TRIAL BOTTLES** 6d. size, supplied on pretty showcards.  
4/6 doz.; 1/- size, 10/- doz.; 3/6 size, 30/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

## INVESTIGATE

The Py-Shan Points Co-operative Sales plan—we think it will interest you. It has a regular weekly sale, gives 5d. per lb., profit, and sales are confined to chemists. Just a card for particulars now to

CHRISTYS, OLD SWAN LANE, E.C.

# BOXES For the Chemist For the Druggist and Sundriesman BOXES

Any Size; any Quantity. One Quality only—THE BEST.  
Send us your Samples or Sizes and we will quote you by return.

**J. DAVIDSON & CO., 98 SHEPHERDESS WALK, CITY ROAD, LONDON, N.**

## DISPENSING BOTTLES & PHIALS.

**CLEAR BLUE TINTED.**—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz.  
Plain or graduated.

**BEST QUININE TINTED.**—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz.  
Plain or graduated.

**WHITE PHIALS.**—1 oz., 1 oz., 1½ oz., 2 oz. Plain or teaspoons.

**BLUE LOTION BOTTLES.**—1 oz., 1 oz., 1½ oz., 2 oz., 3 oz., 4 oz., 6 oz., 8 oz., 12 oz.

**PANEL BOTTLES.**

We send six gross assorted or otherwise, carriage paid within seven miles, and to certain stations. Particulars on application.

**CORKS.**

Good Quality. For 6 and 8 oz. bottles, 1/6 per gross in 6 gross bags. For phials 1/- per gross in 3 gross bags.

**I. ISAACS & CO.,**

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.

9, ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.

Orders sent to either establishment have attention.

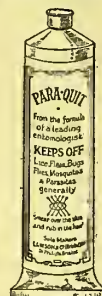
Established 100 Years.

## Order a trial lot of PARA=QUIT

the scientific  
anti-parasite  
preparation

AS NOW EXTENSIVELY  
ADVERTISED.

LAWSON & CO. (Bristol) Ltd.  
ST. PHILIP'S, BRISTOL



P.O.S.

## KAY BROTHERS, Ltd.

STOCKPORT,

Manufacturing Chemists.

**BIRDLIMES and FLY GUMS** for all climates.

**FLYPAPERS,** "Big Bat" & "Falcon" Brands.  
Non-Poisonous.

**FLYCATCHERS,** Spiral Wire, "Vampire."  
**TAPES & BANDS.** Cavity Tape, "Flysac."  
"Scorpion."  
"Dragon."  
{ Roll Band, "Viper." }  
(2 in. wide.)

**CEMENTS.** "COAGULINE." Transparent  
Cement for broken articles, 6d. bots.  
"TENASITINE." A Liquid Cement  
in Tubes, 1d., 2d., 3d. & 6d.  
"KLINX." Hydraulic Cement (heat-  
proof), 6d. tins.  
"CUE CEMENT." 6d. & 1/-.

**SANITARY FLUID.** For Disinfecting and  
Deodorising. In Tins or Casks.

**"PULVICIDE"** (Patented). A Dustlaying Com-  
pound. Agents wanted for its introduction to  
Municipalities.

**"LINSEED COMPOUND."** P.A.T.A.  
A Cough Mixture of 50 years' proven excellence.

## "OUR BOYS" TESTIMONY CONCERNING "RODINE."

"RODINE" gives  
marvellous results."

Sgt. L. CROCKFORD, 121st Battery, R.F.A.,  
France, writes: "Please forward another  
tin of 'Rodine' Rat Poison. We have  
had simply marvellous results with it.  
In cold weather the rats flock to the  
Dug-outs and make them most uncom-  
fortable for us. But thanks to 'Rodine'  
the whole lot have cleared off."

"Rodine" gives satisfaction  
wherever used. Get it on  
best terms from the  
Maker:

**HARLEY,**

Manufacturing  
Chemist,  
PERTH, Scotland.

Export Agents:

TOZER, KEMSLEY &  
MILLBOURN, 84 Fen-  
church Street, London, E.C.



(2)



**POTTER'S Asthma Cure**

for The Relief of ASTHMA  
HAY FEVER BRONCHITIS  
& Diseases of the  
Respiratory Apparatus  
PRICE ONE SHILLING

1/- TINS  
(P.A.T.A. 1/-)

9/6 DOZ.  
NET.

ADVERTISED  
EVERYWHERE

GIVES INSTANT  
RELIEF

POTTER'S  
ASTHMA  
SMOKING  
MIXTURE

Composed entirely of Herbs  
carefully compounded  
and prepared ready for  
smoking either mixed with  
ordinary tobacco or by  
itself. It may also be used  
in the usual form of a  
PRICE 6S. 6D. PER TIN

POTTER'S  
ASTHMA  
CIGARETTES  
FOR THE RELIEF OF  
ASTHMA HAY FEVER  
BRONCHITIS  
& DISEASES OF THE  
RESPIRATORY APPARATUS

6 TINS (P.A.T.A. 6/-)  
4/6 DOZ. NET

POTTER'S  
TRAMONIUM  
CIGARETTES

1/- BOXES (P.A.T.A. 1/-)  
9/6 DOZ. NET.

1/ BOXES (P.A.T.A. 10½d.)  
7/- DOZ. NET.

**POTTER & CLARK LTD.**  
60-64 Artillery Lane  
LONDON E

AND AT  
24 LUNA STREET, GREAT ANCOATS, MANCHESTER.



# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, FEBRUARY 10, 1917.

## TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

**PROVIDED the MONEY is TELEGRAPHED**

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

## BEST RESULTS EVERY WEEK!



There is no need to guarantee the genuineness of the advertisements in 'The Chemist & Druggist Supplement.'

Everybody in the drug-trade knows that only *bona-fide* paid-for advertisements are inserted. The 'Chemist & Druggist Supplement' knows no dead-heads, for it gives

## THE PUBLICITY IT PAYS TO PAY FOR.

# CHEMISTS' TRANSFERS.

## Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number; City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, S.W. (Favourite Residential Locality).—Old-established Business; Family and Dispensing; returns upwards of £1,400; gross profit about 45 per cent.; terms, valuation of stock and fixtures and sum for goodwill to be agreed equitably.

2.—HIGHGATE (Near).—For immediate Disposal, a good but neglected Business returning, under Assistant, £1,270 at fair prices; books audited by accountant and stock taken annually; terms, small sum for goodwill and valuation of stock and fixtures.

3.—LONDON (Northern Suburb).—Situate in the main shopping thoroughfare, well-established Business; increasing income; returns between £1,000 and £1,100; profits exceed the usual rate of middle-class business; well-fitted shop and comfortable residence, with garden; price £600.

4.—Very old-established Business, situate on the Banks of the Thames, held by vendor many years, now retiring; returns upwards of £900; net profit, £250, after paying every expense; first reasonable offer will be accepted.

5.—HERTS (Borders of).—Ready-money Business; held by vendor many years; returns over £30 per week; good position in main thoroughfare; comfortable residence, with garden; rent moderate; price about £500; vendor invites the fullest investigation.

6.—SURREY (Residential Locality).—Select, good-class Business, admitting of extension; returns about £1,000 at good prices; well-appointed shop and good house; price about £700.

7.—GOLDER'S GREEN.—Family and Dispensing Business; returns, under management, between £8 and £10 per week; the locality is developing, and an opening presents to largely extend the turnover; comfortable residence; vendor's own property; price £200.

8.—PARTNERSHIP.—A Partner required in a very old-established Business situate in a Home County; a gentleman with small capital would not be objected to; returns, including Branch, £3,650.

9.—BIRMINGHAM.—Retail and Dispensing Business, established many years; returns, under management, about £600, formerly £1,000; there is also an appointment giving an income of £80 yearly; satisfactory reason for disposal; valuation terms entertained.

10.—HIGH-CLASS WATERING PLACE (Death Vacancy).—Dispensing and Retail, with Optical connection; established many years; returns present rate between £850 and £900, formerly £1,400; to a prompt purchaser valuation of stock and fixtures and £100 for goodwill would be accepted; an opening presents to make £500 a year under good management.

11.—KENT (Suburban).—Well-established Business, Retail and Dispensing; returns £900; net profit about £250; full investigation is invited; price £275 on entry and £175 by instalments.

12.—HEALTH RESORT.—Retail, Dispensing, and Optical; Returns exceed £1,000 at fair prices; valuation and £100 premium for goodwill.

13.—SUSSEX (In the Heart of the Country).—Good-class Retail and Dispensing Business; returns show a steady increase, now £826; net profit exceeds £300; full investigation invited; price £650.

14.—WILTS.—Retail and Dispensing, with Wines and Spirits; established many years and held by vendor about 28; returns £1,562; large shop; comfortable residence, with garden attached; terms, £50 and valuation of stock and fixtures.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.



**PARSON C. BAKER**

(Pharmaceutical Chemist),

**Trade Valuer & Transfer Agent,**

Recommended by The British Drug Houses, Ltd.; Messrs. Meggeson & Co.; Barclay & Sons, Ltd.  
 Valuer to the Association of Manufacturing Chemists.  
 1 Mountfield Road, CHURCH END, FINCHLEY, N.  
 Tel. No.: Finchley 812.

**THOS. TOMLINSON & SON****CHEMISTS' VALUERS, TRANSFER AGENTS,  
AND EXPERT STOCKTAKERS,**

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

**BATTAM & HEYWOOD**

(ESTD. 1837.)

**CHEMISTS' VALUERS, TRANSFER AGENTS,  
AND EXPERT STOCKTAKERS.**

Balance Sheets Prepared. Books Audited.

9 DAVIES STREET, BERKELEY SQUARE, W.

Telephone: GERRARD 2169.

**BERDOE & FISH****VALUERS & TRANSFER AGENTS,**

85 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

**NO CHARGE TO PURCHASERS.****SOUTHEND-ON-SEA.**

**DEATH VACANCY.**—Same hands seventeen years. Good-class Light Retail and Dispensing Business. Excellent position, within one minute of the Cliffs and Band-stand. Returns £800, and before the war restrictions did over £300 a year in photographic materials, and will again under normal conditions. Good house, with garden and every convenience. Attractive and well-arranged pharmacy; stock and fixtures worth about £500. Price £600, reasonable offer entertained. Splendid chance for man accustomed to good-class trade. Strongly recommended by our Mr. Fish, who has known this business thirty years.

**STOCKTAKINGS.**

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application.

Why you should have stock taken is very clearly defined on page 90 of the *C. & D. Diary*, 1917.

Have you read it?

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

**BUSINESSES FOR DISPOSAL.**

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

**FOR IMMEDIATE SALE.**

A PROPRIETARY BUSINESS INCLUDING MANY FAMOUS SPECIALITIES WHICH ARE WORLD-KNOWN, AND WHICH HAVE BEEN WIDELY ADVERTISED.

**T**HE Business has shown excellent profits for over forty years, suffers no reduction to-day, the sole reason for sale being that the owner has had a sudden stroke, which will incapacitate him from further business. The Business is thoroughly sound, can be fully investigated, and is capable of very great developments to a live man or one who understands advertising. Apply, 205/15, Office of this Paper.

**L**IKLEY.—Old-established Business; central position; rent £90; average turnover £800; wine licence. For further particulars apply, Parkin S. Booth, F.A.A., 2 Bixteth Street, Liverpool.

**W**EST RIDING (Near Leeds).—Suburban Light Retail; returns £800, increasing monthly; net profit £300; N.H.I. untouched; splendid scope; good shop and house, nicely fitted and stocked; ill-health sole cause; accept £290 or near offer for quick sale; less than valuation; every investigation; chance seldom offered; part could remain; immediate. Apply, 137/39, Office of this Paper.

**T**O Sell.—Factory and Foundry for Tinned Food products; well set up for these manufactures; situated in Brittany on seashore, a centre where all raw materials are available; good connection; price asked 150,000 francs; Proprietor would keep interest in part. Write to Société Française, 199 Chemin Dupuch, Bordeaux, France.

**BUSINESSES WANTED.**

**L**ONDON (West End or City).—Advertiser (54) desires to hear of Business yielding about £500 a year from good-class trade; would negotiate with gentleman wishing to retire shortly or seeking relief; could give four days each week to business, and would accept all responsibility. 137/400, Office of this Paper.

**AGENCIES.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

**D**UBLIN and the South and West of Ireland.—An experienced Traveller, who has a first-rate connection among Chemists and Druggists, is desirous of Representing a really good firm on commission or part salary and commission; highest references. Apply, "P. L." (111/2), Office of this Paper.



## LEGAL.

## NOTICE.

**PRESTON DISTRICT.**—Pursuant to an Order of the Court of Chancery of the County Palatine of Lancaster made in the matter of the estate of George Furness deceased and in an action William Brown against Mary Rebecca Hanson the creditors of George Furness late of 204 Central Drive Blackpool in the County of Lancaster, Herbalist, who died in or about the month of August 1916 are on or before the 8th day of March 1917 to send by post, prepaid, to Mr. Charles Murray Philipps of 30 Lytham Street Blackpool aforesaid the solicitor of the Plaintiff one of the executors of the deceased, their Christian and surname, addresses and descriptions (and in the case of firms the names of the partners and the style or like of the firm) the full particulars of their claims, a statement of their accounts, and the nature of the securities (if any) held by them, or in default thereof they will be peremptorily excluded from the benefit of the said Order. Every creditor holding any security is to produce the same before the Registrar of the Preston district at his chambers, situate at No. 10 Winokley Street Preston on the 13th day of March 1917 at 12 o'clock noon, being the time appointed for adjudication on the claims.

Dated 1st day of February 1917.

T. B. BLACKBURN, Registrar.

**IF JOHN TAYLOR**, formerly with Mr. Piggott, Chemist, Huddersfield, and afterwards was employed in London, will communicate with Armitage, Sykes & Hinchcliffe, Solicitors, Huddersfield, he will hear something to his advantage. Any information relating to him will be gladly received by the above-named firm.

## FOR SALE.

**BRASS** Knife-Edge Beam Drug Scales to weigh 4 lb., 35s. new; 1 lb. Sodii Iodid., 16s. lb.; 3 lb. Sodii Brom., 5s. lb.; 2 lb. Bismuth Trisnit., 11s. lb.; 2 lb. Bismuth Subgallate, 12s. lb.; 6 oz. Phenazone Tablets, 2s. 9d. oz.; 2 oz. Pulv. Phenazone, 2s. 11d. oz.; 4 lb. Potass. Sulphurata at 2s. 3d. lb.; 80 Shop Rounds, fair condition, 10 to 60 oz., 6d. to 1s. each; 2½ doz. Jap Air Pillows, 12s. the lot. "C," 97 Borough High Street, S.E.

**MAXIM** Pipe of Peace Inhalers, 9s. 6d. Timothy White Co., Ltd., Portsmouth.

**TICKET-PRINTING** National Cash Register for Sale; Second-hand; with all latest improvements; adds total and prints every sale. Write to F. Nicholls, 45 Cumberland Street, Caledonian Road, N.

**WHAT** offers? 1 lb. Fer et Quin, Cit.; 4 lb. Bism. Carb.; 4 oz. Guaiacol Carb.; 1 lb. Bism. Oxichloride; 4 oz. Pepsin; 1 lb. Aceto Salicylic Ac.; 10 lb. K.Br.; 2,000 Aspirin Tablets, gr. 5; 6 oz. Ac. Benzoic; 4 oz. Sulphonal; 1 lb. Phenazone; 2 oz. Morph. Hcl.; 1 lb. Lith Carb. Apply, 136/30, Office of this Paper.

**WHAT** offers? 40 lb. Oil Cade, 3 oz. Hop Oil, 2 oz. Ol. Lavand. Ang. Reply to 136/39, Office of this Paper.

**10** I.B. Pot. Permang.; 10 lb. Camphor Cubes, Jap, ¼ oz.; 14 lb. Camphor Flowers; 7 lb. Saccharin Tablets, 330 ½-grain tablets. Please state offers to Lever, 107 Leicester Road, Broughton Park, Manchester.

## PREMISES TO LET.

**DENTAL** Tenant urgently wanted for excellent Business Suite of Rooms above well-known Chemists; central position; established connection and ample scope; favourable lease; an opportunity seldom offering. Write, Frank G. Hines, Folkard & Co., 13-14 Pavement, York.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RESULTS OF ADVERTISING IN THIS SUPPLEMENT LAST WEEK FEB 3 1917	
NATURE OF ADVT.	REPLIES
MANAGER	22
UNQUAL.	14
ASSISTT	12
MANAGER	12
DISPENSER	11



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

## RETAIL.

**BALHAM.**—By end of February; Assistant; ineligible; reasonable hours and good salary to desirable man; abstainer; must be thoroughly capable for good-class business; photographic knowledge required; good references essential; state age and full particulars. Cooper, Chemist, 1 Ramsden Road, Balham, London, S.W.

**BARNESLEY.**—Wanted at once, capable unqualified Assistant; outdoors; lady or gentleman, latter must be ineligible for military service. Write, stating age, salary required, and usual particulars, to P. G. Dales, Chemist, Stairfoot, Barneley.

**BATH.**—Assistant required in good-class branch establishment; must be capable Dispenser and willing to assist with general work in Pharmacy; easy hours arranged. State salary required, with usual particulars, to "Chemist," 25 Wellsway, Bath.

**BECKENHAM, KENT.**—Lady Dispenser required for a good-class dispensing business; outdoors. Apply, with full particulars, salary required, etc., Barnes & Jones, 9 Parade, Beckenham.

**BIRMINGHAM.**—Unqualified man, over military age or rejected for military service, required for comfortable position in Head Office of a well-known company of Retail Chemists; must be good at figures and well up in drug prices, etc. "Check" (210/12), Office of this Paper.

**BOLTON.**—Wanted, qualified Assistant; outdoors; preferably over military age; comfortable position; half-day weekly, and no Sunday duty. Apply, with references and stating salary required, to Wardle's Drug Stores, Ltd, Egerton Street, Moss Gate, near Bolton.

**BRISTOL.**—Dispenser wanted, lady or gentleman (ineligible) for cash retail and N.H.I. Dispensing. Apply, stating age, height, salary required; also references, to F. Moss, 206 Redland Road, Bristol.

**CANTERBURY.**—Wanted, Junior or Improver (ineligible for Army service), for seaside Branch. Send full particulars of experience, references, salary required, etc., to Walker & Harris, Ltd., Canterbury.



## CITY AND COUNTY OF BRISTOL.

HAM GREEN ISOLATION HOSPITAL AND SANATORIUM,  
PILL, NEAR BRISTOL.

## APPOINTMENT OF DISPENSER (MALE OR FEMALE).

The Health Committee desire applications for the above appointment.

Candidates must be qualified Dispensers, and the Officer appointed will be required to devote the whole of his or her time to the service of the Corporation. The duties will consist of the necessary dispensing for the Hospital and Sanatorium, assisting in the clerical work and in the work of the Laboratory.

Candidates must state their qualifications and experience. Salary £120 per annum (dinner and tea provided).

Applications to be forwarded to the undersigned not later than Monday, 19th February, 1917.

D. S. DAVIES, M.D.,

Medical Officer of Health.

40 Prince Street, Bristol, 6th February, 1917.

CARDIFF.—Duck & Son require an Assistant (lady or gent); outdoors. State age, height, experience, salary, etc.

DARLINGTON.—Assistant required (also Managing Assistant); abstainers preferred. Apply, stating age, experience, salary required, to Waters, Chemist, Darlington.

DONCASTER.—Qualified Manager for small branch shop; lady or gentleman; hours 8 to 6, Friday and Saturday 8; no Sunday duty; single-handed, lock-up shop; comfortable permanency to one willing to accept moderate salary. Apply, with full particulars, to the Secretary, Doncaster Mutual Co-operative and Industrial Society, Ltd., John Street, Doncaster.

EALING, W.—Assistant wanted (lady or gentleman) for good Dispensing business; Stock and Counter or Dispensing. Apply, stating age, experience, and salary required, to W. A. Weston, 8 Sandringham Parade, Ealing, W.

ERITH-ON-THAMES (12 miles from London Bridge).—Capable Assistant required at once for brisk, light retail and dispensing in manufacturing district; outdoors; reasonable hours; good salary offered to reliable man. In reply, please give fullest particulars, enclosing photo (to be returned), Walter Reeson, 80 High Street, Erith, Kent.

GRANTHAM.—Young lady wanted; Hall qualification; Dispensing and Light Retail; easy hours; half-holiday. Fillingham, Chemist, Grantham.

GRIMSBY.—Wanted at once, qualified Manager; ineligible; healthy and energetic. State salary, give references, and send photo, Freshneys, 5 Victoria Street, Grimsby.

KENT.—Wanted, a Junior Assistant (lady or gentleman), or Turnover Apprentice for good-class country business; easy hours; no Sunday duty; outdoors. Apply, stating age, experience, and salary required, enclosing photo if possible, to W. Stedman, Chemist, West Malling.

## TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

## ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

## RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

KETERING.—A Dispenser-Bookkeeper, lady or gentleman, to a firm of Doctors; rooms and attendance found. Apply, with references and salary required, to Messrs. Roughton & Toppatt, Montagu Street, Kettering.

KIDDERMINSTER.—Wanted, Assistant (outdoors), lady or gentleman (ineligible). Send usual particulars, Taylor, Chemist, Kidderminster.

LEAMINGTON SPA.—Competent Assistant for Dispensing business. Apply, with usual particulars, to J. Price, 42 Bath Street, Leamington Spa.

LEICESTER.—Junior Assistant (lady or gent.) for Dispensing Counter and Galenicals; must have had some Dispensing experience; good opportunity to obtain thorough knowledge. Also one required for branch shop; used to N.H.I. Dispensing. Salary required and references to F. W. Goodess, 25 Market Street, Leicester.

LONDON.—Wanted, in two or three weeks' time or sooner, a good outdoor unqualified Assistant just over military age, or one totally exempt; comfortable situation offered; salary 50s. to £3 per week, according to experience; one clear day off a week; permanency. Apply, "Chemist" (135/33), Office of this Paper.

LONDON District.—Unqualified Assistant, age about 46, required for Light Retail and Dispensing business; permanency to a suitable man. "G." (210/121), Office of this Paper.

LONDON, E.C. DISTRICT.—Qualified Manager or Manageress for Branch Shop; light retail and N.H.I. Dispensing; progressive and permanent position to a thoroughly capable and steady worker. Apply, in first instance, to Drury, 63 Great Hermitage Street, London E.

LONDON, E.C.—Junior, Improver, or smart youth required immediately for good-class City business; easy hours; Saturdays 1 o'clock; good wages. Grieve, 3 Queen Street, Cheapside, E.C.

LONDON, N.W.—Qualified Assistant, married, wanted; over military age; furnished apartments provided. P. Davidson, Pharmaceutical Chemist, 342 High Road, Brondesbury, N.W.

LONDON, N.W.—Wanted at once, capable Assistant (male); unqualified; quick and reliable Dispenser; ineligible for Army. Apply, with full particulars, salary required, &c., to W. R. Ames, High Street, St. John's Wood.

LONDON, S.E. (Near London Bridge).—Wanted, competent Assistant; lady or gentleman; highest references essential; usual business hours, with three hours' duty alternate Sundays; meals provided during business, otherwise outdoors. Apply, with full particulars of salary required, when disengaged, qualifications (if any), to Austen's Ltd., 196/202 Bermondsey Street, S.E.

LONDON, S.E.—Wanted, lady Assistant for Dispensing and Light Retail. Apply, full particulars, Neathercoat, 60 Denmark Hill, S.E.

LONDON, S.W.—Unqualified Assistant (ineligible), or lady (Apothecaries' Hall), with Retail experience; outdoors. Apply to Summers, Pharmacist, 436 High Road, Streatham, S.W.

LONDON, S.W.—Young lady Assistant required for high-class Retail and Dispensing business; one who has had a little experience in a Chemist's establishment preferred. Kindly state age and salary required, "Square" (210/120), Office of this Paper.

LONDON, S.W.—Reliable, industrious Assistant, outdoors, ineligible, for all-round retail, photographic, and dispensing business; good widow-dresser essential; no Sunday duty, weekly half-holiday, moderate hours. Particulars to Brook, Pharmacist, 155 Lavender Hill, S.W.

LONDON, S.W.—Assistant wanted, with good all-round experience, not eligible for the Army. Please state age, experience, references, salary required, and when disengaged (outdoors), to "P. C. A.," 189 Wandsworth Road, S.W.

LONDON, W.—Wanted (immediately), a capable Assistant; one with previous West-end experience preferred. Apply, personally or by letter, to J. Munro & Co., 273 Regent Street, W.

MANCHESTER.—Wanted, an unqualified Assistant accustomed to good-class business; must be good Counterman; no insurance work or Sunday duty. Apply, 135/7, Office of this Paper.

MIDDLESBROUGH.—Wanted, lady Assistant (unqualified), with good Dispensing and Retail experience. Apply, giving full particulars of experience, salary required, etc., to A. C. Gaddes, M.P.S., Middlesbrough Co-operative Society, Ltd., Middlesbrough.



**NOTTINGHAM.**—Unqualified Assistant wanted for Light, Mixed Retail and Dispensing; permanency; must be ineligible for tary service. Particulars as to age, experience, and salary bed, to Rogers, Son & Page, Chartered Accountants, Milton mbers, Nottingham.

**XFORD.**—Messrs. Dolbear & Goodall, 108 High Street, require an Assistant immediately; qualified preferred, but not essen-; indoors or out.

**PORTSMOUTH.**—Wanted, Junior or older unqualified Assistant (outdoors); hours 8.45 to 8 p.m., 9 Saturdays, Wednesday .m.; no Sunday duty. State salary and reference, Cooper, gston Cross Pharmacy, Portsmouth.

**HEFFIELD.**—Assistant, lady or gentleman, with good experi-ence, for Dispensing department, and able to assist at the ater if necessary; hours 8.30 to 7 p.m., Saturdays 8.30 p.m. te age, height, experience, qualification, salary, and send to if possible, G. T. W. Newsholme, Ltd., 27 High Street, field.

**OUTH OF ENGLAND.**—Assistant required; free removal; per- manency, with good salary. Timothy White Co., Ltd., mists, Portsmouth.

**OUTH WALES.**—Smart qualified Manager required for business situate not far from Cardiff; must be a capable Dispenser and d Counterman; good salary and interest in the profits offered suitable man. "S. W." (210/122), Office of this Paper.

**WEST OF ENGLAND.**—Wanted, experienced man, about 45, to assist in good-class Dispensing business under principal. te full particulars and salary required, 137/4, Office of this er.

**WELSHPOOL.**—Wanted immediately, Assistant; indoors; easy hours; half-day weekly; no night or Sunday duty; good ary to suitable man; qualification not essential. W. Bishop, mist, Welshpool.

**WORTHING.**—Assistant wanted; outdoors; lady or gentleman; good-class business. Send particulars, with references, to Aston, Pharmaceutical Chemist, Worthing.

**VACANCY** will shortly occur for a smart, qualified Business Manager for high-class, up-to-date Store Chemists, leading a on South Coast; must be good window-dresser and expert sman; also with photographic and optie knowledge; per- nency; salary £200 per annum, with bonus on profits; moving enses paid; applications treated with confidence. Fullset par- lars, age, height, experience, married or single, with photo ssible, "Chemist," Willings, 10 North Street, Quadrant, ghton.

**SSISTANT;** Surgical Instrument business; competent man of good character for front shop. Address, stating age, duties ustomed to, and wages expected, 120/16, Office of this Paper.

**APABLE** Assistant wanted; chiefly for Dispensing; qualifica- tion not essential. State experience, age, references, and ary required, Anderson and Virgo, Chemists, Worcester.

**IMMEDIATELY.**—A competent, trustworthy Assistant needed for good Dispensing and Retail business. W. Pickard, 3 West ington Terrace, W., opposite West Kensington Station.

**JUNIOR** Assistant (ineligible) or young lady; indoors; seaside town. Full particulars age, references, salary required, W. H. Woodman, Chemist, Burnham, Somerset.

**JUNIOR** Assistant; outdoors; ineligible; or lady applicant would suit if able to Dispense and willing to gain experience in ail; good-class business; hours 8.30 to 8, alternate evening y after closing until 9.30; light Sunday duty. State usual tiouls and salary required, J. W. Feltwell, 91 Hammersmith d, West Kensington..

**ADY** wanted as Junior in best-class Dispensing business; out- doors; one other lady employed. A. H. Ellithorne, 26 ington Road, Oxtou, Birkenhead.

**ADY** Assistant required; thorough training not essential, but good handwriting desired. Apply to A. J. Phillips, 156 mwelwell Road, South Kensington, S.W.

**ADY**, qualified Pharmacist, with Retail experience, for good- class Dispensing and Light Retail business about 20 miles n London. 138/38, Office of this Paper.

**OCUM** Tenens wanted at once; £3 5s. weekly; short hours. Cooper, Chemist, 20 Royal Exchange, London.

**MANAGER;** qualified; over 45 or ineligible; must be a good .rganiser and accustomed to good-class business. Apply, ng full particulars of experience and salary required, to Reid, 2 & 3 Queen Street, Exeter.

**MESSRS. TIMOTHY WHITE CO., LTD.,** Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

**OUTDOOR** Assistant wanted for up-to-date Retail and Dispens- ing business; easy hours. Apply, giving references and full particulars and salary required, to A. H. Price, Chemist, 2 Guild- ford Road, Woking, Surrey.

**QUALIFIED** Manager (married) wanted for good-class Retail business in market town of Fareham, Hants; Photography, Optics, and Prescribing; permanency; short hours; no Sunday duty; modern and comfortable house; good salary and commis- sion. Please send full particulars as to age, experience, when at liberty, with references, to F. G. Foster, "Ivydale," London Road, Portsmouth.

**QUALIFIED** Assistant (ineligible for Army), used to N.H.I. Dispensing. State full particiars, with references, to Audsley, Horbury, Wakefield.

**QUALIFIED** Chemist for Dispensing business required at once; must be ineligible for military service. Please give full particulars of experience and salary required, to Lewis Wing, Ltd., 19 Walliscote Road, Weston-super-Mare.

**RELIABLE** Assistant; outdoors; quick and accurate Dispenser; R knowledge of Photography essential. Apply, G. W. G. Robinson, M.P.S., 307 Raiton Road, Herne Hill, S.E.

**UNQUALIFIED** Assistant (outdoors) for period of war; in- eligible for military; Retail and Dispensing, with some knowledge of Photography; good salary to energetic, competent Assistant; easy hours; no Sunday duty. Helsby, Pharmaceutical Chemist, 220 Freeman Street, Grimsby.

**UNQUALIFIED** Assistant wanted for London business; reason- able hours; one day off weekly; good salary to suitable man. Apply, H. T. Hines, 86 High Street, Whitechapel, E.

**UNQUALIFIED** Assistants, exempt from military or national service, required for Dispensing and Counter work; salary and commission. Apply, 136/900, Office of this Paper.

**UNQUALIFIED** Assistant required in an Agricultural and Dis- pensing business in the Eastern Counties. Apply, with full particulars of age, experience, and salary required, to 211/8, Office of this Paper.

**WANTED**, Assistant for good-class Dispensing business; out- doors. Usual particulars to E. J. Appleby & Co., 8 Argyle Street, Bath.

**WANTED**, reliable Assistant, mainly for Dispensing. J. H. Hart, Ph.C., Ross-on-Wye.

**WANTED**, Manager; qualified; permanency and excellent pro- spects for capable and smart man. Write, with full par- ticulars, W. Bennison, Pharmaceutical Chemist, 133 King's Road, Chelsea.

**WANTED**, young lady for Chemist and Fancy Goods depart- ment; Counter experience necessary; Hall qualification pre- ferred. Application, by letter, endorsed "Chemist," stating age, salary required, and references as to character and ability, on or before Tuesday, February 13, to Co-operative Society, Heck- mondwick.

**WANTED**, lady Assistant; Dispensing, Stock, and Counter; hours 9 to 7; no Sunday duty; outdoors. State experi- ence, Walter Marchant, 36 High Town, Hereford.

**WANTED**, lady Dispenser and Bookkeeper; must be qualified; some experience of Panel work necessary. Apply, stating salary required (outdoors), and enclosing testimonials, to 135/38, Office of this Paper.

**WANTED**, in good-class Dispensing business, capable lady Dispenser; previous Counter experience not essential; out- doors. "Suburban" (136/1), Office of this Paper.

**WANTED**, qualified Manager for small Pharmacy in country, near Derby; applicants must be thoroughly reliable and ener- getic; outdoors; no N.H.I. Dispensing; short hours and no Sun- day duty; good Prescriber and Stockkeeper. Apply, 211/11, Office of this Paper.

**WANTED**, for a City Stores, a lady or ineligible man with Hall qualification and some previous experience; short hours, 1 o'clock Saturday and no Sunday duty; also an Assistant with Minor qualification, Apply, Staff Superintendent, C.S.S.A., Ltd., 136 Queen Victoria Street, E.C.



**WANTED**, unqualified Assistant or Junior, exempt from military service, for Insurance Dispensing and Counter. Apply, with full particulars age, references, salary required, etc., Price, Blackheath, Birmingham.

**WANTED**, lady Assistant, part-time, in old-established West-end Dispensing business, to assist in Dispensing and making preparations. Apply, 211/17, Office of this Paper.

**WANTED**, smart man to take charge of Drug Stores in popular Lancashire health resort; must be capable, trustworthy, and over military age. State experience, salary, references, 138/26, Office of this Paper.

**YOUNG** lady Dispensers wanted at once; those able to assist at Counter work preferred; salary and commission. Apply, 136/9, Office of this Paper.

**YOUNG** lady Improver; girl between 16 and 17 as help to Dispensing Chemist generally; few months' experience; willing; City or North London preferred. Apply, "Improver" (138/19), Office of this Paper.

## WHOLESALE.

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**A FIRM** of the highest standing, engaged in the Wholesale manufacture and distribution of Drugs and Chemicals, has vacancies for men of conspicuous ability, capable of filling managerial positions. Some knowledge of the trade, of course, essential, but experience and capacity in the management and organisation of mixed male and female labour of chief immediate importance. Applicants should give full particulars of knowledge and experience, and appointments will immediately be made to interview likely candidates. Apply, in the first instance, to 209/61, Office of this Paper.

**BOOKKEEPER** and general Clerk in the City (male preferred); permanent situation; if possible with some experience in the Drug or Druggery trade. Particulars to D. Turner, Northfield, Herbert Road, Hornchurch, Essex.

**EXPERIENCED** Invoice Clerk wanted; ineligible or above military age; salary according to ability. Apply by letter with full details, to the Secretary, Wright, Layman & Umney, Ltd., Southwark, London, S.E.

**EXPERIENCED** Pill-maker wanted; good pay to reliable man. Write, giving full particulars of experience, etc., to "London" (138/39), Office of this Paper.

**LABORATORY Assistant** required by company Chemists; must have had experience of the preparation of Galenicals and Proprietarys on a manufacturing scale; applicants must be men ineligible for the Army, or women. Particulars of experience, age, and salary desired should be addressed to Martyn's Stores, Ltd., Wolverhampton.

**LADY** Analytical Chemist wanted immediately for Anaesthetic Manufacture. Apply, stating qualifications and salary required, to Abbey Chemical Co., Ltd., 11 Tothill Street, S.W.

**REPRESENTATIVE** wanted for North Midlands by a firm of Manufacturing Wholesale Chemists. Apply, with fullest details as to age, experience, remuneration, etc., to 211/2, Office of this Paper.

**REQUIRED** for City Wholesale Druggist, man to take charge of Oil cellar; previous experience necessary, and free from military service. Apply by letter, giving full particulars and salary required, to 211/26, Office of this Paper.

**TOILET Soap and Perfumery Manufacturing**.—Warehouse and Checking Clerk wanted to get up orders, invoicing, etc.; some experience in similar business desirable. Apply, Breidenbach & Co., 48 Greek Street, Soho Square, W.

**WANTED**, for a Mineral Water Factory, an experienced Bottler, and to assist generally in the factory; must be ineligible for military service; "Otto" engine and Hayward Tyler's machinery. State age experience, married or single, wages required, H. S. Martin, Ltd., Chemists and Mineral Water Manufacturers, East Grinstead, Sussex.

**WANTED** at once, by an old-established firm of Manufacturing Chemists, a competent Laboratory Assistant; permanency to suitable man; state experience and wages. 138/16, Office of this Paper.

## SITUATIONS WANTED.

for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

### [HOME.]

### RETAIL.

**ASSISTANT** or unqualified Manager, good reference, required; permanency; Dispenser, Prescriber, Dental, administer gas, own instruments; married; rejected. 144 Goddard Avenue, Swindon.

**ASSISTANT**; well experienced Counter, Dispensing; exempt. "Statim," 4 Bright Street, Cheetham, Manchester.

**ASSISTANT** (19), 5 years' good experience, including 3 years' indentured Apprenticeship, disengaged; excellent references; Wales preferred. Evans, 158 City Road, Cardiff.

**ASSISTANT** or Manager, temporary or permanent, disengaged; over military age; unqualified; active and energetic. "L. T.," 1 Eton Road, Newport, Mon.

**ASSISTANT** (48); active; experienced. "Chemists," 41 St. Paul's Road, Highbury, N.

**ASSISTANT**; ineligible; young; unqualified; competent take charge; whole or part time; disengaged. State hours, salary. "W. B.," "The Nest," Spring Grove Road, Hounslow, W.

**BRANCH Manager**.—Position required by experienced middle-aged man; town or country; qualified, active, reliable; practical knowledge of all departments; good references. Full details and terms for outdoors or indoors, to "Pharmacist" (138/32), Office of this Paper.

**CERTIFICATED** Dispenser, Bookkeeper, and Attendant, 11 years' experience, desires post with Surgeon or Institution; four years last appointment; permanency; London district or locum (anywhere); disengaged February 28. Apply 126/28, Office of this Paper.

**CHEMIST'S Assistant** (19), totally exempt, desires berth with Chemist or Dispenser to Doctor; 4 years' N.H.I. experience; Cardiff or Rhondda preferred. Apply, Davies, Brynhyfryd, Church Street, Treherbert, Glam.

**DISENGAGED** (except evenings); thoroughly experienced City, West-end, Store, Hospital and Infirmary Dispensing, Counter and Stock; six years surgeon's clinical assistant; extractor; smart, active; ineligible. Gibson, 122 Scott-Ellis Gardens, St. John's Wood.

**DISENGAGED**; Locum; permanency; age 46; reasonable terms; good references. Chemist, 14 Sutherland Place, Bayswater.

**DISPENSER** (Hall) disengaged; 10 years' experience; partly trained nurse; Croydon district or London preferred; understands bookkeeping. T., 38 Brighton Road, South Croydon.

**DOCTOR'S daughter**, young, well trained, good testimonials, desires Dispensing with Doctor, small Hospital, or good-class Chemist in London. Reply to "X. Y. Z." (207/53), Office of this Paper.

**ELDERLY**, reliable, and active qualified man is open to assist in any capacity; used to good-class business; indoors or out; permanent or otherwise; moderate remuneration; advertiser has been out of business for some few years. 155/30, Office of this Paper.

**EXEMPT**; unqualified; 37; tall; experienced; methodical. Hamilton, 170 Clerkenwell Road, E.C.

**HALL** certificated lady desires post; Hospital or Institution preferred; tall, good reference. Apply, 137/40, Office of this Paper.

**HASTINGS DISTRICT**.—As Substitute; unqualified; married; 30; conditional exemption, C2; first-class experience. "Archer," c/o Richley, 26 Magdalen Road, St. Leonards-on-Sea.

**LADY** (20), twelve months' experience in large Dispensary, desires post as Dispenser in Birmingham; Institution preferred. "D.," 43 George Road, Erdington.



**L**ADY Dispenser desires post with Chemist or Doctor; part Hall qualified; 3 years' experience with Chemist; part-time, afternoons and evenings, or evenings only; London. Cosslett, 369 Clapham Road, S.W.

**L**ADY, part Hall certificate, tall, some experience, desires post with Doctor or Chemist; London, W. or N.W., preferred. "W., 38 Heathdene Road, Streatham.

**L**ADY Dispenser desires post; some experience; Hall qualification; London preferred. Apply, 134/34, Office of this Paper.

**L**ADY Dispenser wants post with Chemist; part Hall-qualified. Apply 129/30, Office of this Paper.

**L**ADY Junior; age 19; 2½ years' Retail and Dispensing. "M. B. H., 8 Church Street, Wolverton.

**L**ADY (Minor) desires post; first-class Chemist; well trained. 136/23, Office of this Paper.

**L**ADY Dispenser, well recommended, seeks post with Doctor, Institution, or part-time; perfect French; Bookkeeping if desired. Bailey, 53 Leinster Square, Bayswater, W.

**L**ADY Dispenser (Hall qualification) desires situation with Doctor or Chemist; near Scaford preferred. Apply, 133/10, Office of this Paper.

**L**IVERPOOL.—Unqualified; age 30; tall, active; 15 years' good practical experience; high-class Dispensing and Counter; ineligible. Please state salary and hours. Apply, 136/11, Office of this Paper.

**L**OCUM; per day or week-ends; experienced; references; abstainer; 50; unregistered. "Chemicus," 20 Chapel Street, Uxbridge.

**L**OCUM; lady, M.P.S.; well recommended; Swansea or district preferred. Williams, Pharmacist, Taiabach, Port Talbot.

**L**OCUM, 57s. 6d. and return fare, unregistered, 20 years' sound experience, disengaged. Clutterbuck, 4 College Street, Aberdeen.

**L**OCUM or Temporary; qualified; disengaged; every experience. "N., 10 Prideaux Road, Clapham.

**M**ANAGER; Pharmacist; ineligible; 30; single; excellent experience; London preferred. Apply, 132/37, Office of this Paper.

**M**ANAGER; experienced; photographic; ineligible; highest references. "M.P.S.," 81 East Street, Bridport.

**M**ANAGER, branch, or Assistant; 55; single; Hall qualification; disengaged; abstainer; active, energetic; country preferred. S., 22 Deacon Street, Swindon.

**M**ANAGER, open for immediate engagement; thorough all-round London experience. State salary and hours to "Ph.C.," 220 Elmhurst Mansions, Clapham, S.W.

**M**ANAGER; qualified; elderly; active and experienced; good references. "Apex" (138/5), Office of this Paper.

**M**ANAGER; qualified; first-class experience and record; good organiser; ineligible; disengaged February 12. 136/7, Office of this Paper.

**M**ANAGER, Pharmacist of exceptional experience, highest references, open to re-engagement. To save time please state remuneration, 136/25, Office of this Paper.

**M**ANAGER; qualified; 42; disengaged; married; active; energetic; good appearance and address; permanency; Wholesale, Retail; London or suburbs. "Chemist," 229 Mortlake Road, Ifford.

**N**OTTINGHAM or Neighbourhood.—Part-time; M.P.S.; well connected; abstainer; elderly. 133/31, Office of this Paper.

**P**HARMACIST (C3) requires berth, Manager or Assistant, Locum or permanency; good prospects; short hours. Please state salary, 9 Trinity Terrace, Corbridge-on-Tyne.

**Q**UALIFIED Manager or Assistant; permanency or Locum; experienced. Davies, Ty Owrd, Llwynhendy, Llanelly.

**Q**UALIFIED experienced Manager (46) desires permanent post; best knowledge of all branches; London preferred; free about end of March or before. 136/14, Office of this Paper.

**Q**UALIFIED (25); rejected; Counter and Dispensing experience. "Chemist," 23 Chelsham Road, Clapham, S.W.

**Q**UALIFIED Chemist desires immediate post. "Rhei," c/o Hamilton, Artillery Place, Woolwich, S.E.

**Q**UALIFIED (23); disengaged; B2; temporarily exempt. Tiernan, Colville Road, Boscombe, Hants.

**Q**UALIFIED Dispenser-Manager; conscientious; trustworthy; C3; best experience; excellent references; Manchester district. 137/37, Office of this Paper.

**U**NQUALIFIED, 23, C 3, desires change; present engagement three years; Dispensing and Counter; state salary and hours. Apply, 137/5, Office of this Paper.

## WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

**A**DVERTISER, ineligible, experienced representative, first-class connection London Chemists, Shippers, also Southern Counties, Ireland, and Wales, is open to take up additional Agency, or would represent established manufacturer solely. Apply, 138/21, Office of this Paper.

**A**DVERTISER (26), rejected, excellent experience, Wholesale, Factory, Retail, control staff, Correspondent, well-educated, seeks good position in or outdoors. "Business" (138/35), Office of this Paper.

**D**ISCHARGED soldier, seven years' experience with Retail Chemists, seeks position with Surgical Instrument firm or manufacturers of Toilet Requisites; willing to pay premium or invest small capital for berth with good prospects. Apply, 135/40, Office of this Paper.

**D**ISENGAGED; thoroughly experienced Warehouse work; six years counting house; good, hard worker; tactful controller; smart. Gibson, 122 Scott-Ellis Gardens, St. John's Wood.

**G**ENTLEMAN, at present occupying responsible position, desires change; fully experienced in all departments, both warehouse and office. Address 138/13, Office of this Paper.

**M**ANUFACTURING Chemist desires situation with a London firm; good experience and best references; totally exempted. 128, Office of this Paper.

**P**HARMACEUTICAL, Toilet, Perfumery, and general Laboratory, thorough practical man (26), ineligible, 10 years' experience, desires permanency. 136/18, Office of this Paper.

**Q**UALIFIED (43) seeks suitable engagement; Representative or indoor. "Pharmacist," 5 Claverton Street, S.W.

## MISCELLANEOUS.

(From the Cape.)

**15** CWT. Rough Cape Gum; 2 oz. Atropin Pur.; 20 oz. Quin. Aceto Sal.; 6 oz. Berberin. Sulph.; 10 lb. Beta Naphthol Pur.; 7 lb. Rad. Hydrastis Contus.; 1 lb. Benzo-Naphthol; subject to being unsold; freight paid; what offers? Apply, 205/64, Office of this Paper.

**S**HOP FITTINGS (SECOND-HAND), Suitable for Large Pharmacy, or can be adapted as required.—16 ft. Plate-glass Wall-case; 16 ft. Handsome Fixture with Glass-labelled Drawers, Mahogany cupboard, etc.; 12 ft. Plate-glass Fronted Counter with Label Drawers, etc.; 7 ft. Handsome Dispensing Screen; Silent Salesman Case; 6 ft. Bent Plate-glass Counter Case; Desk and Perfume Case; £135 the lot; sketches on application; or would divide. PHILIP JOSEPHS & SONS, 93 Old Street, London, E.C.

**S**ECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.



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One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

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### FOR DISPOSAL.

#### DRUGS AND CHEMICALS

5-GRAIN pill machine; perfect order; offers? Moultrie, Queen's Road, Broadstairs.

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7 lb. potass iodid., 7 lb. potass bromid.; what offers? Fuge, Chemist, High Wycombe.

WHAT offers? acid benzoic, homatropinum hydrobrom. pilocarpine, helmitol, glyrol, saffron. Hasselby, Hastings.

WHAT offers? 10 x 100 gr. v. B.W. phenacetin tabloids; 5 x 50 gr. v. phenacetin tablets; 2 x 50 and 6 x 25 gr. v. phenacetin co. tablets. Scholes, Chadderton, Oldham.

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#### MISCELLANEOUS.

60 x ½ gallon jars, 20 x 1 gallon jars, 10 x 2 gallon jars; have contained oil; cash 40s., free on rails. Francis & Co., Chemists, Wrexham.

### WANTED.

WHITE mineral oils wanted. Send your best offers to 209/560, office of this Paper.

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PHARMACEUTICAL Journal Formulary; good condition. F. E. Buckingham, Red Lion Street, Aylsham.

WANTED, good bottle-filling machine, purchase or hire; state make and capacity, Lait, 27 Store Street, W.C.

SHARP'S Crown Outfit No. 3; Sharp's draw press Model "A"; second-hand; cheap. "Alpha," 123 West End Lane, London.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

WANTED, for prompt cash, pure beeswax, Montan wax, Carnauba wax, Candelilla wax, Ozokerit, small or large quantities. 209/56, Office of this Paper.

GARDNER'S "Rapid" sifting and mixing machines, for powders. State size and style of machine, and very lowest price, to 205/36, Office of this Paper.

WANTED, latest type National cash register; must be in very good condition. Write, giving particulars, to F. Cook, 62b Mulburn Road, Upper Holloway, N.

WANTED, boot-polish tins, to hold about ½ lb.; size about 4 in. by 1 in. We are also buyers of liquid metal-polish tins. Samples and price to "Brytenup," Polish Works, Preston, Lancs.

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